1897

L. D. Berger,

....MANUFACTURER OF....

Tinners' Hardware

AND

Roofers' Supplies,

59 North Second Street,

PHILADELPHIA.

1897

WE carry in stock a full line of Leading Goods and can make prompt shipments. Lowest market prices guaranteed. If we can be of any service to you, or you desire any information in our line, write us freely. We make it our business to help you if we can. You can send us an order and have your small packages sent here and we will send them to you.

Ale
8184

1897... ...1897

L. D. Berger

Manufacturer of

TINNERS'
HARDWARE
AND
ROOFERS'
SUPPLIES

Gray and Malleable Castings Made to Order.

Pattern Making, Tinning and Japanning.

No. 59 North 2nd Street,

PHILADELPHIA, PA

AVERY LIBRARY
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To My Customers.

I take pleasure in again presenting my friends with a descriptive catalogue of the various goods carried in stock, and respectfully refer to the following pages.

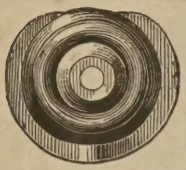
It has been my endeavor to make the descriptions as clear and comprehensive as possible, but I shall be pleased to furnish further information at any time.

I also take this opportunity to thank my patrons for past favors, and assure one and all that it will ever be my aim, as heretofore, to serve my friends, both old and new, with prompt and careful attention.

Very respectfully,

L. D. BERGER.

PHILADELPHIA, PA.
March 1st, 1897.

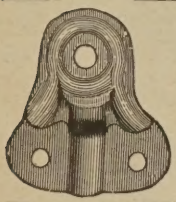


EXCELSIOR PAIL EARS.

PER GROSS PAIRS.

Nos . . .	1	2	3	4	5
	$ 21	23	26	31	43

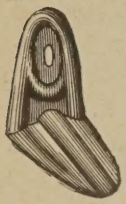
Put up in Gross Boxes.



EUREKA KETTLE EARS.

PER GROSS PAIRS.

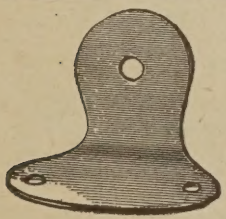
Nos . . .	0	1	2	3	4	5
	$ 32	35	40	50	65	85



EUREKA CAN EARS.

PER GROSS PAIRS.

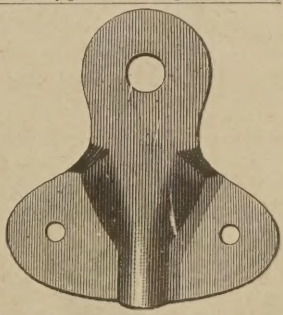
Nos . . .	1	2	3	4	5
	$ 32	40	50	65	85



WROUGHT TEA-KETTLE EARS

PER GROSS PAIRS.

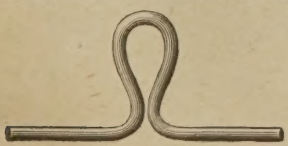
Nos	4	5	6
	$1 75	2 25	2 75



IRON-CLAD KETTLE EARS.

PER GROSS PAIRS.

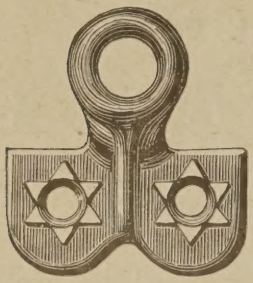
Nos.	0	1	2	3	4	5	6	7
	$ 50	60	80	1 00	1 25	1 75	2 00	2 25



WIRE EARS.

No. 25. Per Gross . . . . . $ 20

Shipped in bulk.



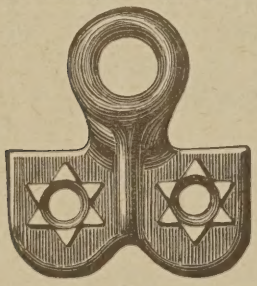
BERGER'S STAR BUCKET EARS.

Patented.

PRICE PER GROSS.

Nos.	1	2	3	4	5	6	7	8	9
Tinned	$ 35	50	65	90	1 30	1 60	2 25	3 50	4 20

In Gross Boxes.



STAR MILK-PAN EARS.

Beveled for flaring pans.

Patented.

PRICE PER GROSS.

Nos.	1	2	3	4	5	6
Tinned,	$ 35	50	65	90	1 30	1 60

In Gross Boxes.

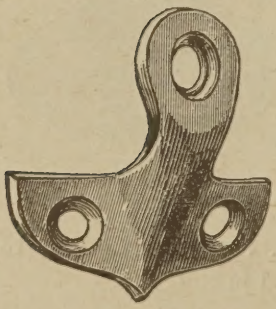
BUTTER KETTLE EARS.

Patented.

PRICE PER GROSS.

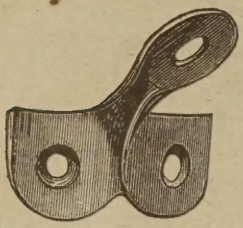
Nos	1	3	3
Tinned,	$ 40	60	80

In Gross Boxes.



POLISHED BRASS EARS.

Per pair, ... $ 20



TEA-KETTLE EARS.

PRICE PER GROSS.

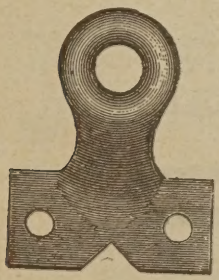
No. 2. Tinned, ... $ 50
No. 3. " 65

In Gross Boxes.

HEAVY PAN EARS.

Nos. 0 1 2 3 4

Black per pound, ... $ 10
Tinned, " 13

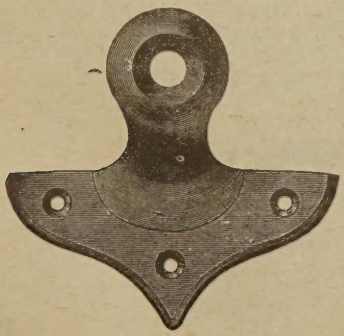


HEAVY WASH-KETTLE EARS.

Nos. 1 2 3 4

Black, per pound, ... $ 10
Tinned, " 13

Also many other styles and sizes kept in stock.



BOILER EARS.

No. 12. 3¾ inches across.

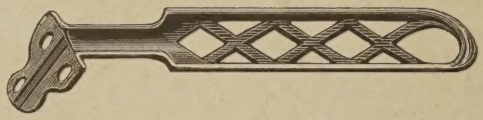
Per pound, tinned, ... $ 13

WOOD-BUCKET EARS.

PRICE PER POUND.

Inches,	2½	3
Japanned	$ 10	10
Tinned	13	13

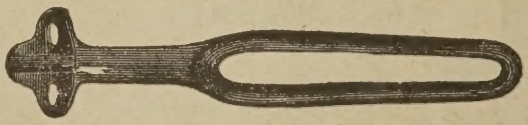
FANCY SAUCEPAN HANDLES.



PRICE PER GROSS.

Inches,	5	6	7	8	9
Japanned	$1 70	2 20	2 70	3 10	3 50
Tinned	2 30	3 00	3 50	4 00	4 50

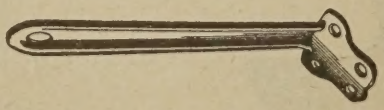
PLAIN SAUCEPAN HANDLES.



PRICE PER GROSS.

Inches,	4	5	6	7	8
Japanned	$1 10	1 40	1 70	2 00	2 30
Tinned	1 40	1 90	2 30	2 70	3 00

OVAL SAUCEPAN HANDLES.

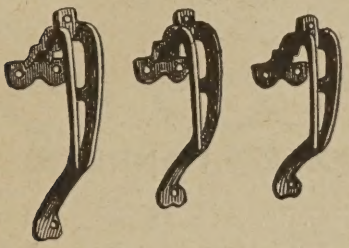


PRICE PER GROSS.

Inches,	6	7	8	9
Japanned	$3 00	3 50	4 00	4 50
Tinned	4 00	4 50	5 00	5 50

COFFEE-POT HANDLES

	Per Doz.	Gross
3 inch, Tinned . . .	$ 30	$3 60
3½ " " . . .	35	4 20
4 " " . . .	40	4 80



TEA-POT HANDLES.

	Japanned.		Tinned.	
	Per Doz.	Gross.	Per Doz.	Gross.
3½ inch	$ 30	$3 60	$ 35	$4 20
4 "	35	4 20	40	4 80

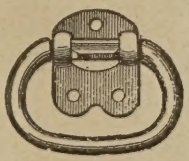
FANCY BOILER HANDLE.

	Per Doz.	Gross
3 inch	$ 20	$2 40
4 "	35	4 00

ROYAL BOILER HANDLES.

Per Doz., Net . . . . . $ 37
Per Gross, ... 3 75

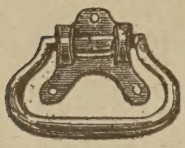
This Handle fits the hand perfectly, and adds greatly to the general appearance of the boiler.



MILK-CAN DROP HANDLES

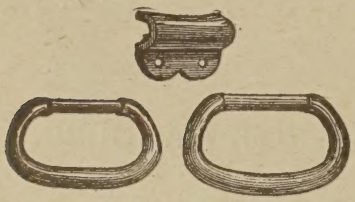
	Per Doz.	Gross
3½ inch Tinned, ...	$ 55	$6 50

Square Top Clips same price.



LARD-CAN DROP HANDLES.

	Per Doz.	Gross
3 inch, Tinned,	$ 25	$2 90
3½ " "	35	4 20
4 " "	45	5 40



MILK-CAN HANDLES.

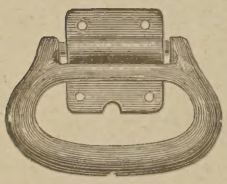
	Per Doz.
3½ inch, Tinned,	$ 55
4 " "	85

Also with Round Top Clips.

GROOVED BOILER HANDLES.

	Per Doz.	Gross
3 inch, Tinned	$ 30	$3 50
3½ " "	40	4 50
Per pound,		

Grey Iron, Coppered, 5 cts. per pound.



GUARD MILK-CAN HANDLES.

	Per Doz.	Gross
4 inch, Tinned,	$ 75	$9 00
Per pound,		

Suitable for 20 or 40-quart cans.

ASH-CAN HANDLES.

	Per Doz.	Gross
3½ inch, Tinned	$ 55	$6 50
3½ " Black	40	4 50
Per pound,		

FANCY TOILET HANDLES.

	Per Doz.	Gross
3 inch, Tinned,	$ 30	$3 50

BREAD-PAN HANDLES.

	Black	Tinned
3 inch, extra light, per pound	$ 10	$ 13
3 " heavy, "	10	13
3½ " " "	10	13

Grey Iron, Black, 5 cts. per lb.

TUREEN HANDLES.

	Per Doz.	Gross
2 inch, Tinned	$ 15	$1 70
2½ " "	18	2 00

FANCY DISH-PAN HANDLES.

1

2

	Per Doz.	Gross
3 inch, Tinned	$ 20	$2 30
3½ " "	25	3 00

DISH-PAN HANDLES.

PRICE PER GROSS.

Inches, Tinned	1½	2	2½	3	3½
	$ 85	85	1 10	1 40	2 10

Per pound . . . . . .

OLD STYLE DISH-PAN HANDLES.

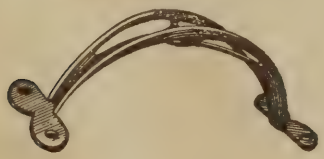
3 inch, Tinned, per gross $2 70

Per pound . . . . . .

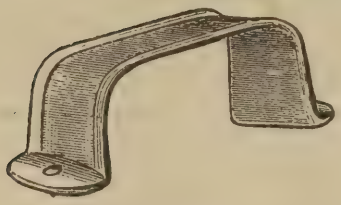
PLAIN LID HANDLES.

	Per Doz.	Gross
4 inch, Tinned	$ 20	$2 40

FANCY LID HANDLES.



	Per Doz.	Gross
5 inch, Tinned	$ 35	$4 00

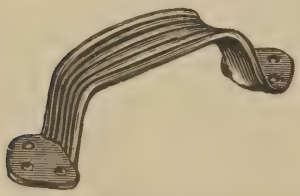


ICE CREAM CAN LID HANDLES.

3 inch, per pound tinned . . . . . $ 13
4 " " " 13

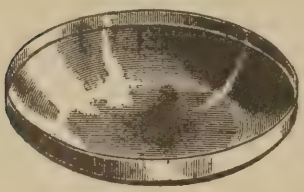
OVAL MILK CAN LID HANDLES.

4 inch, ornamented, per pound tinned $ 13



FLUTED MILK CAN LID HANDLES.

4½ inch, per pound, tinned, ... $ 13
Other styles made to order.



ICE CREAM CAN BOTTOMS.

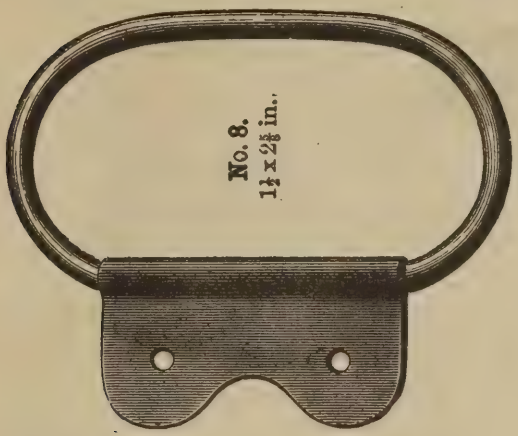
Quarts, 2, 4, 6, 8, 10, 12, 16, 20, 25, 30, 40
Per pound tinned, ... $ 13

TINNER'S RINGS.

PER GROSS.

No.			Coppered. With Clips.	Coppered. Without Clips.	Tinned. With Clips.	Tinned. Without Clips
1,	½	inch	$ 07	$ 04	$ 08	$ 04½
2,	¾	"	09	04¼	10	05
3,	⅞	"	10½	05½	12	07
4,	1	"	12	07½	13½	08
5,	1¼	"	12½	09	14	09½
6,	1½	"	16½	12	17½	12½

No. 3. ⅞ inch.



DRIPPING PAN HANDLES.

PER GROSS.

	With Clips.	Without Clips.
Coppered		
No. 7, 1¼x2½	$ 50	$ 25
No. 8, 1½x2⅝	60	30
No. 9, 1⅝x3	65	35
No. 10, 1⅝x3½	70	40
No 11, 1⅝x4	75	45
Tinned.		
No. 7, 1¼x2½	$ 60	$ 37
No. 8, 1½x2⅝	70	42
No. 9, 1⅝x3	75	46
No. 10, 1⅝x3½	85	50
No. 11, 1⅝x4	90	54

ENAMELED TEA-POT KNOBS.

Nos. 5-26.

No. 25.

Nos. 51-53.

No. 28.

Any size or style 35 cents per gross, net.

PORCELAIN KNOBS.

¾ inch, per gross, ... $ 70

1 " " 80

BUTTER-KETTLE KNOBS.

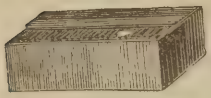
1 inch, tinned, per gross, ... $ 55

1½ " " " 70

2 " " " 1 00

ENAMELED PAIL WOODS.

Inches . . .	3	3½	4
Per gross, .	$ 70	70	1 00

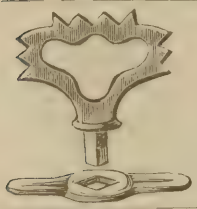


PLAIN PAIL WOODS.

3 inch, per box 500, ... $ 90
3½ " " " 90
4 " " " 1 50

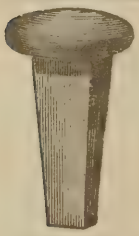
DOGWOOD MALLETS.

No. 9, 2½x5 inch, per dozen, . . . $1 10
No. 10, 2¾x6 " " . . . 1 20
No. 11, 3 x7 " " . . . 1 30



OVEN TURNBUCKELS.

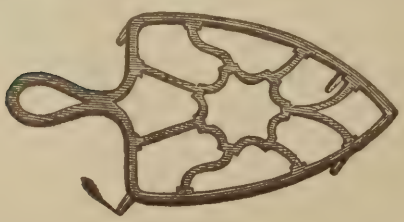
Tinned, per gross, ... $1 30



WALL NAILS.

In 10-lb. boxes. Full size.

Per pound, ... $ 09



SAD-IRON STANDS.

Per Doz.

No. 2, coppered, ... $ 25

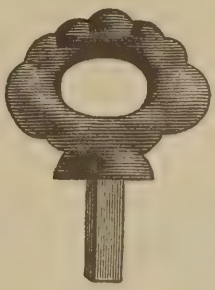
Put up in ¼ gross packages.

These stands have four feet, and are not liable to upset.

STOVE TURNBUCKELS.

No. 1.

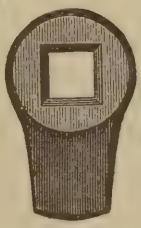
No. 2.



No. 3.

No. 4.

No. 3.

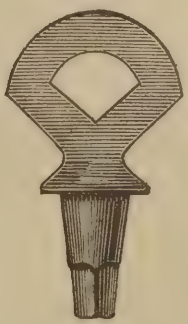


No. 2.

No. 1

Nos. 5, 6, 7.

No. 12.



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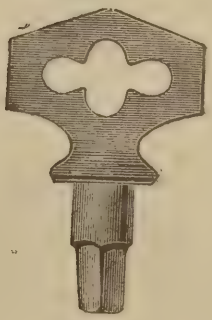
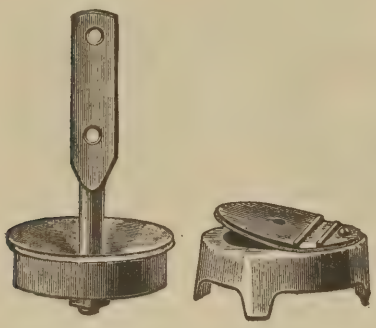


No. 14.

Price, per pound, ... $ 10

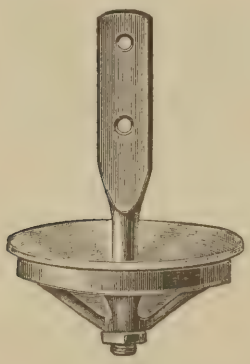
Also other styles and sizes.



OIL AND LIQUOR VALVES AND PLUNGERS

PER DOZEN PAIRS.

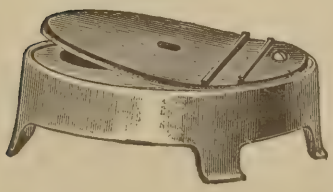
Inches,	1	1¼	1½	1¾	2
	$1 50	1 50	1 75	2 00	2 25



PLUNGERS.

PER DOZEN.

Inches,	2½	3	3¼	3½	4
	$1 50	2 00	2 25	2 50	2 75



PUMP VALVES.

PER DOZEN.

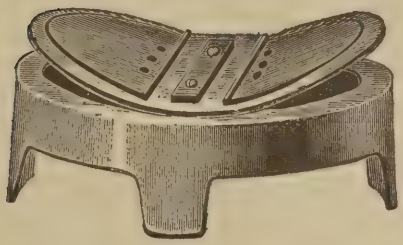
2½	inches,	$2 00
3	"	2 25
3¼	"	2 50
3½	"	2 75
3¾	"	3 00
4	"	3 25

LEATHER PLUNGERS FOR BOAT PUMPS.

PER DOZEN.

2	inches,	$1 30
2½	"	1 65
3	"	2 00
3½	"	2 40
4	"	2 80
4½	"	3 75
5	"	4 50
5½	"	5 60
6	"	6 75

Made of best leather, and well riveted.



DOUBLE CLAPPER VALVES.

PER DOZEN.

4	inches	$3 75
4½	"	5 00
5	"	6 00
5½	"	7 00
6	"	8 50

Clappers for repairs two-thirds the above prices.

ZERO HANDLE LIFTERS.

Per gross, coppered	$4 50
" dozen, nickeled	70

IMPROVED LID LIFTERS.

Put up in ½ gross packages.

	Per Gross
Narrow, coppered	$2 25
Broad "	2 25
Tinned	4 50
Nickeled	6 00

FLAT-HEAD STOVE BOLTS.

PER 100.

Size . .	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 3/4	2
5/32 $	60	60	60	60	65	65	70	70	75	75	80	85
3/16 $	60	60	60	60	65	65	70	70	75	75	80	85
1/4 $		65	65	65	70	70	75	75	80	80	85	90

Size,	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4	5
3/16 $	90	95	1 00	1 05	1 10	1 15	1 20	1 25	1 30	1 35	1 40	1 45
1/4 $	95	1 00	1 05	1 10	1 15	1 20	1 25	1 30	1 35	1 40	1 45	1 50

ROUND-HEAD STOVE BOLTS.

PER 100.

Size,	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 3/4	2
5/32 $	85	85	85	85	90	90	95	95	1 00	1 00	1 05	1 10
3/16 $	85	85	85	85	90	90	95	95	1 00	1 00	1 05	1 10
1/4 $		95	95	95	1 00	1 00	1 05	1 05	1 10	1 10	1 15	1 20

Size,	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4	5
3/16 $	1 15	1 20	1 25	1 30	1 35	1 40	1 45	1 50	1 55	1 60	1 65	1 70
1/4 $	1 25	1 30	1 35	1 40	1 45	1 50	1 55	1 60	1 65	1 70	1 75	1 80

FLAT-HEAD IRON RIVETS.

PER 1000.

Size, oz.,	8	10	12	14	1 lb.	1 1/4	1 1/2	1 3/4	2	2 1/2
Black, $	20	22	24	26	27	29	32	37	42	55
Tinned	24	25	28	30	33	37	42	48	54	69

Size, lb.,	3	3 1/2	4	5	6	7	8	9	10	12
Black, $	60	70	76	90	1 08	1 26	1 44	1 53	1 75	1 98
Tinned	78	81	1 00	1 20	1 44	1 68	1 92	2 07	2 35	2 70

SWEDES' IRON BURRS.

PER POUND.

Nos., . . .	3/8	11/32	5/16	1	2	3	1/4	4	5	6
Black . . $	25	25	25	25	25	25	26	26	27	30
Tinned .	31	31	31	31	31	31	31	32	33	36

Nos., . . .	3/16	7	8	9	10	11	12	13	14
Black . . $	30	32	32	34	35	36	42	42	45
Tinned . . $	36	38	39	40	41	42	48	48	51

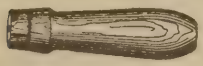
BAR SOLDER.

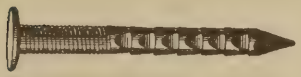
Strictly half and half.

Lowest Market Prices.

SOLDERING COPPERS.

Lowest Market Prices.





SOLDERING-IRON HANDLES.

Per dozen, ... $ 25

SLATING NAILS.

BARRED ROOFING NAILS

Lowest Market Prices.

IRON WIRE.

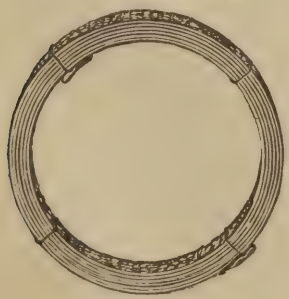
Per pound.

Nos	7 to 9	10 to 11	12
Bright or Coppered	$ 10	11	11½

Nos	13 to 14	15 to 16	17	18
Bright or Coppered	$ 12½	14	15	16

ANNEALED WIRE.

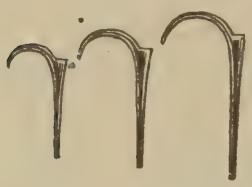
Nos.	17	18	19
Per pound	$ 15	16	19



GALVANIZED AND BLACK HOOP IRON.

All Sizes.

½, ⅝, ¾, ⅞, 1, 1⅛, 1¼, 1½, inch



GAS-PIPE HOOKS.

Malleable Iron.

Price per 100.—Put up in boxes.

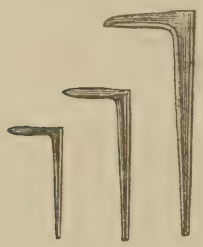
Inches	¼	⅜	½	¾	1	1¼	1½	2
Malleable, $	25	30	35	45	55	65	75	1 00

PLUMBING HOOKS.

Price per 100.

Inches	½	¾	1	1¼	1½
Black, $	40	55	70	1 00	1 50
Tinned, $	55	75	1 00	1 50	2 00

This Hook is not only much cheaper than the old, but also saves bending around the pipe, hence is superior to the wrought iron on account of its neat shape.

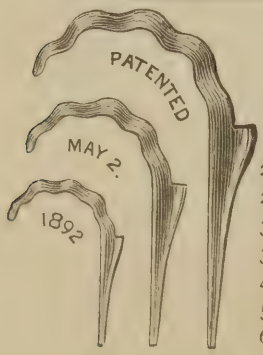


FLASHING HOOKS.

Price per 100.

Inches	1½	2½	3½	5½	7½
Black, $	25	40	70	1 20	1 70
Tinned, $	35	55	1 00	1 70	2 50

The large size will answer for square conductor pipe.

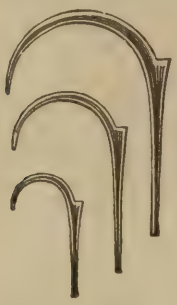


CORRUGATED HOOKS.

Patented.

Price per 100.

	Wood Tinned	Brick Tinned
2 inch	$1 00	$1 75
2½ "	1 50	2 00
3 "	2 00	2 75
3½ "	2 50	3 50
4 "	3 00	4 25
5 "	4 00	6 00
6 "	3 00	7 50



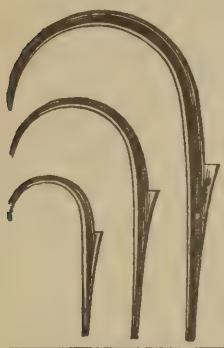
WOOD HOOKS.

Patented.

Price per 100.

	Black	Tinned
1½ inch	$ 65	$ 75
2 "	75	1 00
2½ "	1 00	1 50
3 "	1 50	2 00
3½ "	2 00	2 50
4 "	2 50	3 00
5 "	3 00	4 00
6 "	3 50	5 00

Made with square nail-shaped drives for wooden buildings. Put up 50 in a package.



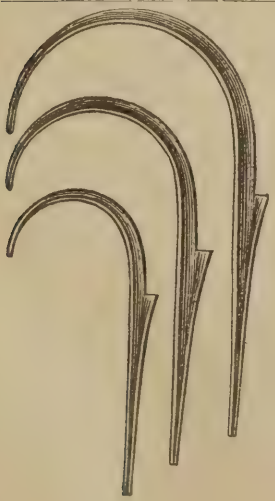
BRICK HOOKS.

Patented.

Price per 100.

	Black	Tinned
2 inch	$1 25	$1 75
2½ "	1 50	2 00
3 "	2 00	2 75
3½ "	2 50	3 50
4 "	3 50	4 25
5 "	4 50	6 00
6 "	6 00	7 50
7 "	7 50	9 00
8 "	9 00	11 00

Warranted neatest and best-shaped Hooks in the market.



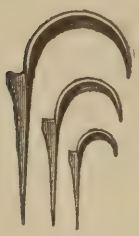
SOIL-PIPE HOOKS.

Patented.

Price per 100, black.

	Malleable
2 inch	$ 2 25
3 "	3 25
4 "	4 25
5 "	5 25
6 "	6 25
7 "	8 00
8 "	10 00

The Malleable Hooks are made with extra heavy long drives. They cannot be excelled.



WROUGHT GAS-PIPE HOOKS.

Price per 100—put up in boxes.

Inches,	¼	⅜	½	¾	1	1¼	1½	2
Wrought Iron,	$ 35	40	45	55	70	85	1 00	1 10

WROUGHT-IRON PLUMBERS' HOOKS.

Price per 100, black

Inches	½	¾	1	1¼
	$ 47	50	58	65

WROUGHT-IRON SOIL-PIPE HOOKS.

Price per 100, Black.

2 inch,	$2 15
3 "	3 60
4 "	4 40
5 "	7 15
6 "	8 60

WROUGHT-IRON PIPE STRAPS.

Inches,	¼	⅜	½	¾	1	1¼	1½	2

Price per pound, tinned . . . . . 13 cents

CORRUGATED WOOD HINGED HOOKS.

Patented.

Price per 100, tinned.

Inches . . .	2	3	4	5
Short Drive,	$2 50	3 50	4 50	5 50
Long "	$3 00	4 00	5 00	6 00

CORRUGATED BRICK HINGED HOOKS.

Patented.

Price per 100, tinned.

Inches, ...	2	3	4	5	6
For Brick, . . .	$3 50	4 50	5 50	6 50	7 50

ROUND WOOD HINGED HOOKS.

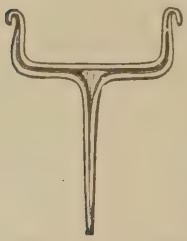
Price per 100, tinned.

Inches	2	3	4	5
Short Drive, . .	$2 50	3 50	4 50	5 50

ROUND BRICK HINGED HOOKS.

Price per 100, tinned.

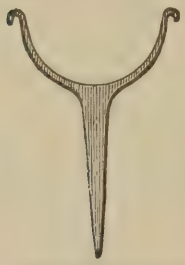
Inches . .	2	3	4	5	6
For Brick, .	$3 50	4 50	5 50	6 50	7 50



SQUARE WIRED HOOKS.

Price per 100, tinned.

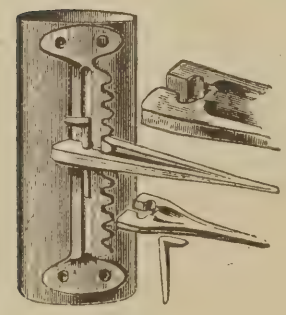
Inches	2	3	4	5
For Wood . . .	$1 50	2 00	2 50	3 00
For Brick . . .	$2 50	3 00	3 50	4 00



ROUND WIRED HOOKS.

Price per 100, tinned.

Inches	2	3	4	5
For Wood . . .	$1 50	2 00	2 50	3 00
For Brick . . .	$2 50	3 00	3 50	4 00



BERGER'S ADJUSTABLE CONDUCTOR FASTENER.

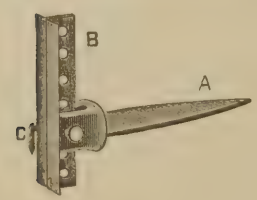
Patented.

Per 100, complete, tinned.

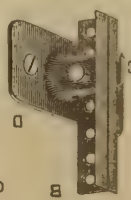
No. 0,	For brick,	3 inch	drive . . .	.	$3 50
" 1,	" "	4	"		4 00
" 2,	" stone	6	"		5 00
" 3,	" "	9	"		6 50
" 4,	" wood	3	"		3 50
" 5,	" "	5	"		4 00
" 6,	" "	to screw on,	. . . . .		3 50

PRICE LIST OF DRIVES ONLY.

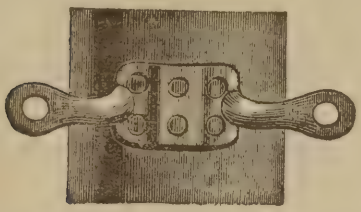
4 inches, ...	$2 00	No. 4, ...	$1 50
6 "	3 00	" 5, ...	2 00
9 "	4 50	" 6, ...	1 50



HALL'S CONDUCTOR FASTENERS.



Per 100 sets, net, ... $5 00



CONDUCTOR PIPE CLEATS

Price per 100.

3 inch, tinned $1 50
4 " " 2 00

CONDUCTOR PIPE CLEATS.

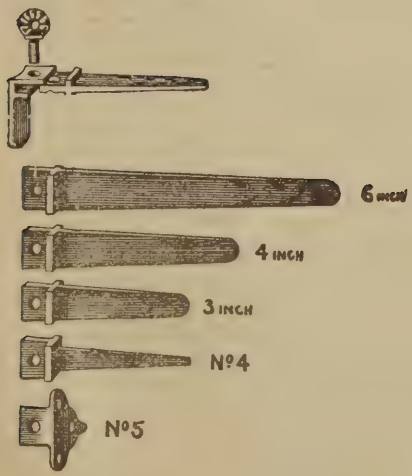
Price per 100.

No. 5, tinned $2 50
No. 6, " 2 50

This cleat is fastened lengthwise for slipped joints and will answer for all sizes or kinds of pipe.

Put up 50 in a package.

The No. 6 is made to set the pipe close up to the wall.



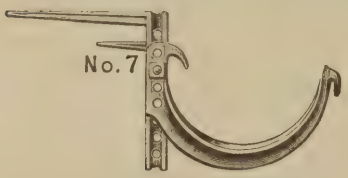
AUSTIN'S PIPE FASTENERS.

Price per 100, tinned.

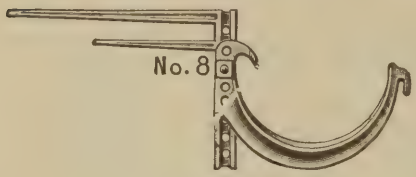
No. 1, 3 inch, for brick, . . $4 00
" 2, 4 " " . . 5 00
" 3, 6 " " . . 6 00
" 4, for wood 3 50
" 5, " 4 00

BERGERS' GUTTER HANGERS.

Patented October 13, 1879. Patented August 11, 1885. Patented July 6, 1889

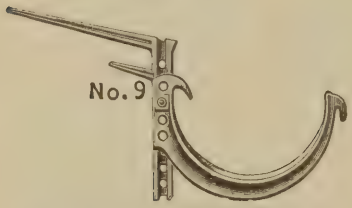


No. 7 is made to drive from 3 to 4 inches square in the cornice. The lower prong forms a brace for the upper, and makes it very strong and firm.

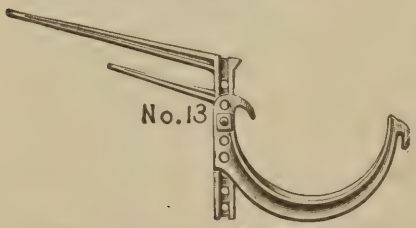


No. 8 is made to drive from 3 to 6 inches square in the cornice.

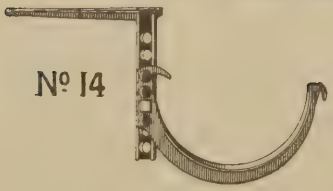
This iron is intended for eaves where the shingles project far over the cornice.



No. 9 is to drive with the pitch of the roof. Same length as No. 7. Suited for narrow molded cornice.



No. 13 drives with the pitch of the roof. Same length as No. 8.

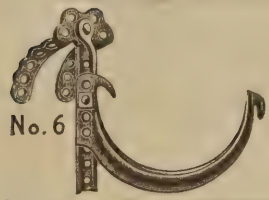


No. 14 is made to drive in brick or stone fronts.

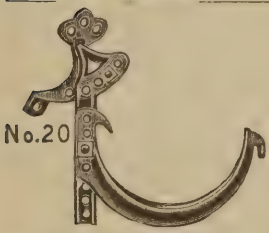
For Prices See Page 27.

BERGERS' GUTTER HANGERS.

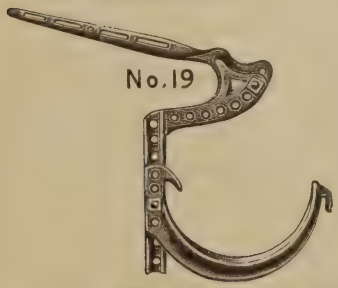
No. 10 is made to nail against square box cornices, and is especially adapted to barns, mills and factories.



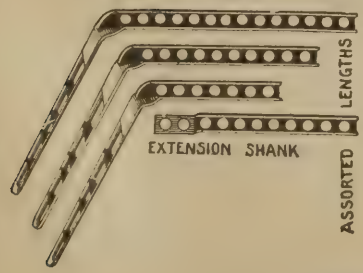
No. 6 is made especially to nail against O. G. moldings. The two stays are made to fit in the cove and can be bent to suit any variation.



No. 20 is hinged for any pitch, can be nailed or screwed to various shaped moldings at any angle desired.



No. 19 is used either on top or under the shingles and suited for short projections of the shingles over the moldings.



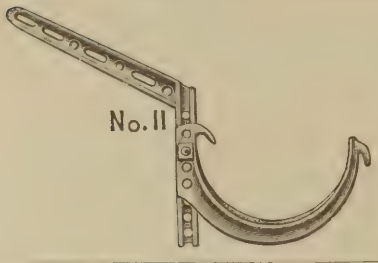
ASSORTED LENGTH.

All orders are filled with assorted length shanks unless otherwise ordered

For Prices See Page 27.

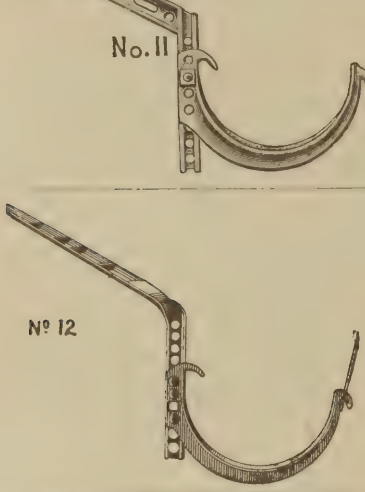
Architects indorse them everywhere. The only Hanger to leave an open, clear, expanding gutter.

No Tools Needed--Easily Put Up.



No. 11 is especially adapted to barns, mills and factories, where the rafters are exposed. The shank is nailed to the side of rafter, assorting the 4, 6¼ and 9-inch shank to correspond with the amount of fall required. If more fall is desired, use the extension shank, to bolt on the end.

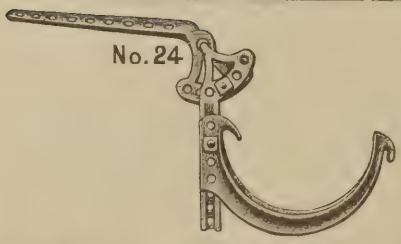
For Hinged, see No. 18.



No. 12 is made ¼ pitch to fasten under the shingles or slate, and are bent to suit the pitch. The holes on top of the shank are made beveling so that the nail can be driven at any point and enter the shank.

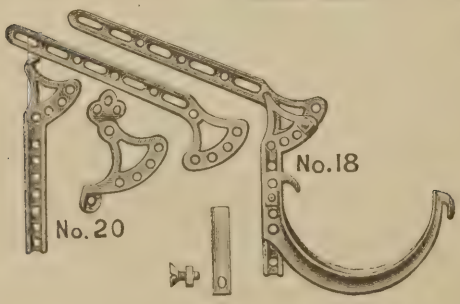
No. 15 is made for flat roofs.
No. 25 for steep roofs, half pitch.
No. 17 is hinged for any pitch.

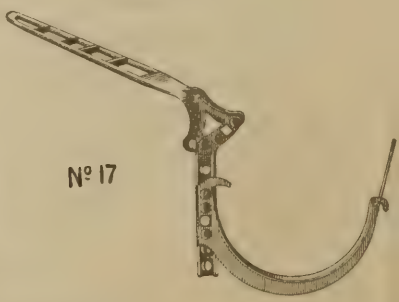
See No. 17 below.



No. 24 is hinged to bolt on corrugated or other iron roofs, for awnings, mills and factories.

Note the hinge and circle, both adjust to every ⅛ of an inch.





For Prices See Page 27.

SHANKS AND CIRCLES.

The Royal Circle.

For Single Bead. All Sizes.

The Gem Circle.

For Single Bead. All Sizes.

The Penn Circle.

For Double-Beaded Troughs. All Sizes.

The Standard Circle.

For ½ inch Single Beads.

GLOBE CIRCLE for ¾ inch bead is same style.

Price List of Shanks.

Put up 50 in a Package.

	Per 100
Nos. 7-9	$2 00
Nos. 8-10-13-14	3 00
Nos. 6-11-12-15-20-25-30	3 50
Nos. 17-18-24-27-28-34	4 00
No. 19 with bolt for hinge	5 00
Extension Shank, with extra bolt	2 00

Discount . . . . . per cent.

Price List of Circles.

With Bolt and Strap.

	Per 100 Net
3-3¼-3½-3¾-4-4¼ inches	$2 00
4½-5-5¼ inches	3 00
5¾-6-6¼-6½ inches	4 00
7-7¼-7½-8 inches	5 00
9-10 inches	6 00

For Galvanized, add 25 per cent. to list.

Discount . . . . . per cent.

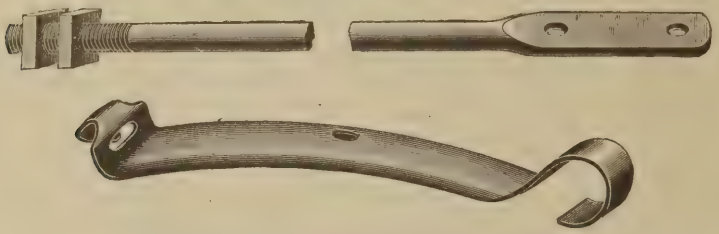
NOTE.—In measuring Gutter, always spread it to a true compass inside of bead. Also always state what kind of circle is wanted.

Leading size Circles: 3½-4-4¼-4½-5 and 6 inches.

Leading Shanks: Nos. 7-8-9-10-11 and 12.

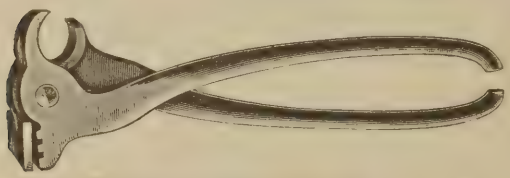
THE ACME STEEL EAVES TROUGH HANGER.

Patented



PRICE LIST OF ACME HANGERS.

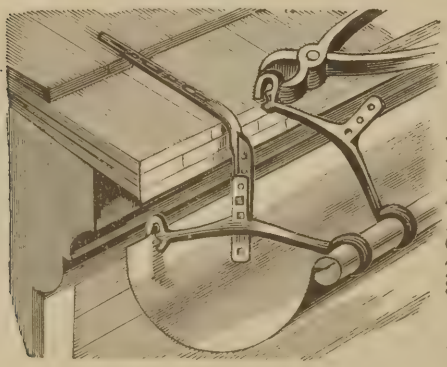
	With Rods and Nuts Complete Net	With Straps Riveted to Cross Bar Net
3 inch Japanned	$3 75	$3 50
3½ " "	4 00	3 50
4 " "	4 25	3 75
4½ " "	4 35	3 85
5 " "	4 50	4 00
6 " "	5 00	
7 " "	6 00	
8 " "	8 00	
Hanger Tongs		$ 40
Rod Bender, for bending to any angle		75
Pulleys, for hoisting Trough		1 00



PIPE TONGS.

For clinching the hangers

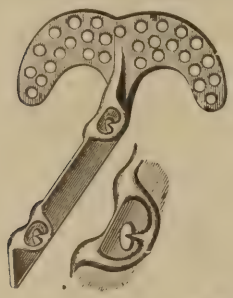
40 cents each.



THE KING HANGER.

3 inch, per gross	$4 00
3½ " "	4 25
4 " "	4 50
4½ " "	4 75
5 " "	5 00
6 " "	5 50
7 " "	6 50
8 " "	7 50

This Hanger adjusts two inches beyond the length of the shanks.



Standing Seam Roof Irons.

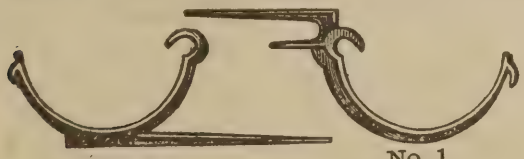
Patented October 31, 1893.

Price per 100.

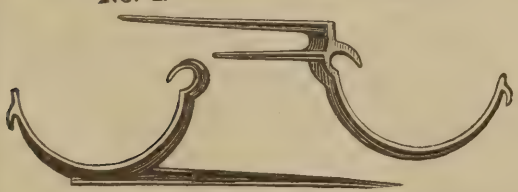
	Black.	Galv'd
No. 1, for standing seam . .	$6 00	$8 00
No. 2, for slate roof (shoe only)	4 00	6 00
No. 2. for slate roof, complete	12 00	16 00

The No. 2, complete, is riveted on 3-16x1-4 inch iron plates, 14 inches long, to go 9 inches under the slate. For heavier and longer iron plates, price extra according to size.

This novel device is designed to do away entirely with either snow rails or gutters formed on the roof to prevent the snow from sliding down, or the necessity of boring holes through the metal in order to provide suitable fasteners for snow rails; if spaced reasonably close, no rail will be needed, and when rails are preferred no better or more artistic fastener could be provided. Being made of best malleable iron, they are clamped directly to the standing seam by clinching the lugs through the seam.



No. 4. No. 1.



No. 5 No. 2

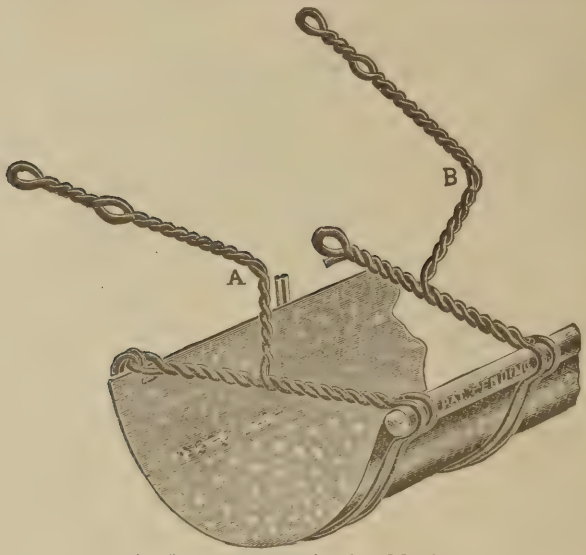
PLAIN TROUGH IRONS.

50 in a package.

PRICE PER 100.

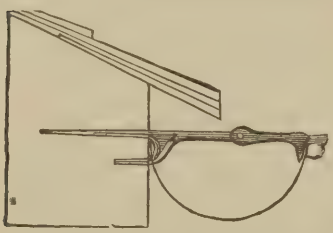
Inches	4 or 4¼	4½ or 5
No 1 or 4	$3 50	$4 50
No. 2 or 5	4 00	5 00

WIRE EAVE TROUGH HANGERS.



The Best Hanger in the Market.

Inches	3	3½	4	4½	5	6
Per Gross . . .	$2 25	2 25	2 50	2 75	3 00	3 50



EAVE-TROUGH SPIKES.

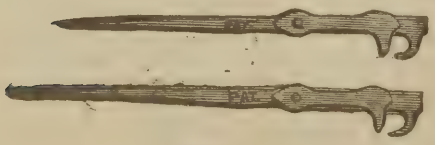
Measure between Beads.

PRICE PER 100, BLACK.

Inches, ...	4	4½	5	6	7
Short Drive No. 1,	$3 00	3 50	4 00	4 50	5 00
Medium " " 2,	4 00	4 50	5 00	5 50	6 00
Long " " 3,	5 00	5 50	6 00		

☞Always state what size Bead is wanted

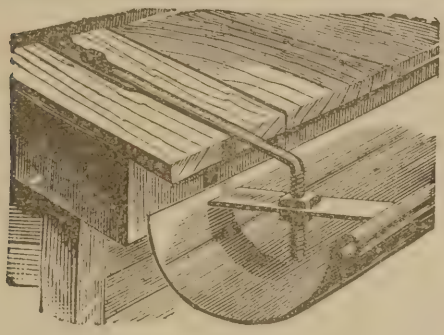
REPAIR SPIKES.



PRICE PER 100, BLACK.

7 inches long	$2 00
9 " "	2 50
12 " "	3 00

☞Always state what size Bead is wanted.



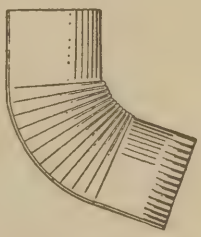
THE WOODRUFF HANGER.

Per Gross Net.

3	inch,	$2 75
3½	"	2 75
4	"	2 75
4½	"	3 00
5	"	3 00
6	"	3 75
7	"	4 25
8	"	7 00

THE "O. H." ONE-PIECE CONDUCTOR ELBOW.

No. 3



Price List—Per Dozen.

Size	Tin. Nos. 1, 2, 3	Tin. No. 4, or Shoe	Galvanized No. 1, 2, 3	Galvanized No. 4 or Shoe
2 inch,	$1 80	$2 20	$2 70	$3 10
2½ "	2 30	2 70	3 40	3 80
2¾ "	2 40	2 80	3 60	4 00
3 "	2 40	2 80	3 90	4 30
4 "	3 60	4 00	6 20	6 60

GALVANIZED SPOUT GUARDS.

Price Per Dozen.

2	inch,	$2 50
2½	"	2 75
3	"	3 00
3½	"	3 25
4	inch,	$3 50
5	"	7 00
6	"	9 00

Any other style made to order. Also Copper Guards.

SLATE ROOFING IRONS.

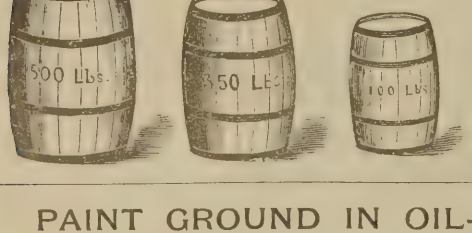
2½x9½ inches, per 100, net, ... $5 00

Any other style or size made to order.

DRY IRON ORE PAINT.

Color—Dark Red.

Used for Painting Iron and Tin Roofs, Factory, Farm and Railroad Buildings, Freight Cars, Bridges, Fences and Iron Work of all kinds, exposed Brick Walls, etc.



Price per pound dry.

Per keg 100 pounds,	$01½
Per barrel 400 "	01¼
Per Ton 2000 "	01

PAINT GROUND IN OIL--PASTE FORM.

Colors—Bright Red, Red and Prince's Brown.

This paint requires only about half as much oil to mix it for use as dry paint requires.

PRICES.

In cans, 25 pounds, per pound	$ .04
In kegs, 100 pounds, per pound	.03¾
In barrels, per pound	.03½

PECORA ROOFING CEMENT.

READY FOR USE
SOLD IN PASTE FORM

S P S

ELASTIC
DURABLE
FIRE PROOF

ROOFING CEMENT

is used for bedding or laying Slate, Tile and Metal Roofs of all kinds, for repair work cannot be excelled, will save the price of a new Roof as it can be used for repairing old Roofs, Chimney joints and in all places where solder cannot be used.

THREE SHADES.
RED,
BROWN
SLATE.

PACKAGES & PRICE

Barrels	900 lbs	3cts.
½ Bbls	400 lbs.	3cts.
Buckets	75 & 150 lbs.	4cts.
Cans.	25 10 & 5 lbs.	5cts.

Ten [10] Feet Long Without a Cross Seam.

BERGERS' CORRUGATED EXPANDING CONDUCTOR.

Round Expanding Conductor.

REGULAR SIZES, PER FOOT.

	Galvanized
2 inch	$ 12
3 "	15
4 "	20
5 "	25
6 "	30

Square Expanding Conductor.

Austin's	Ritchie's	Galvanized
1¾ x2¼, equal to 2 inch round.	1¾ x2¼	$ 13
2⅛x2¾, " 3 "	2 x3	16
2⅝x3⅜, " 4 "	3 x4	21
3¼ x4½, " 5 "	4 x5	26
3⅝x5¼, " 6 "		31

Plain, Square and Round Pipe same List.

Can furnish Tin also.

ELBOWS AND SHOES.

Round or Square.

Round.	Elbows Each	Shoes Each
2 inch	25	30
3 "	30	36
4 "	40	48
5 "	50	60
6 "	60	72

Square.	Elbows Each	Shoes Each
2 inch	30	40
3 "	36	48
4 "	48	60
5 "	60	72
6 "	72	84

In ordering Elbows and Shoes, parties will please state the angles required accordingly as numbered in the annexed cuts.

Prices on Copper Conductors quoted upon application.

SPIRAL LOCK-SEAM PIPE.

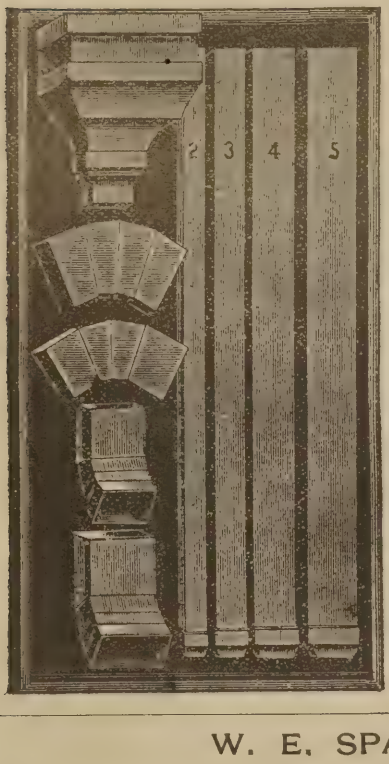
PRICE PER FOOT.

Diameter.	Tin.	Galv'd
1½ inch	$ 07	$ 12
2 "	09	14
2½ "	10	17
3 "	11	19
4 "	15	25
5 "	21	30
5½ "	25	34
6 "	28	38

PATENT ADJUSTABLE ELBOWS.

Inches	1½	2	2½	3	3½	4	5	6
Per doz. Tin,	$1 80	1 80	2 40	2 40	3 60	3 60	4 80	6 60
" Galvanized,	$2 40	2 40	3 00	3 60	4 20	4 80	6 60	8 40

Inches	7	8	9	10	12
Tin	$ 8 40	10 80	12 60	14 40	16 50
Galvanized	$10 20	13 80	15 00	16 80	



PEERLESS EXPANDING PIPE

Made in 8 feet lengths, without cross seams, of 27 gauge. best Bloom Galvanized Iron, with machine-set tapering corners making connection easy.

PRICE PER FOOT.

Inches .	2	3	4	5	6
Galv'd .	$ 12	15	20	25	30

SHOES & ELBOWS.

PRICE PER DOZEN.

	Shoes.	Elbows No. 1.	Elbows No. 2.
2 inch,	$3 50	$2 50	$3 00
3 "	3 75	2 75	3 25
4 "	4 50	3 50	4 00
5 "	5 25	4 25	4 75
6 "	5 75	4 75	5 25

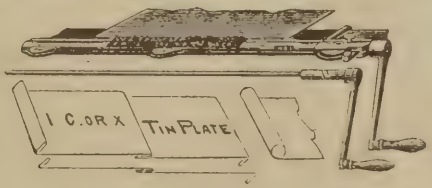
W. E. SPANGLER'S

Patent Improved.

SINGLE AND DOUBLE LOCK FOLDER.

With Latest Improved Gutter Beading Attachment with No. 2 Machine if wanted.

It will make a Double Lock in one Operation.



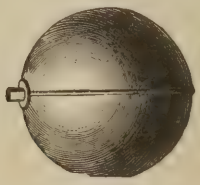
Will work perfect on I. C. or X Tin Plate. A most desirable machine for tin roofing. Will make a double lock water-tight cross seam without soldering. SIMPLE. DURABLE. EFFICIENT.

ZINC ROSES OR SPRINKLE HEADS.

No. 0, Per Dozen,	2½	inch,		$ 35
No. 1, "	3	"		40
No. 2, "	3½	"		50
No. 3, "	4	"		60
No. 4, "	4½	"		70

ZINC BALLS.

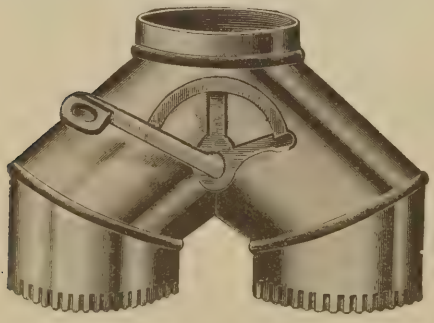
In Halves.



Inches .	2	3	4	5	6	7	8	9	10	12	14	16
Net, . . $	8	10	12	16	20	25	30	65	95	1 60	2 25	3 25

THE ACME RAIN WATER CUT-OFF.

The cheapest and best Cut-Off made. Recommended by Architects and Builders

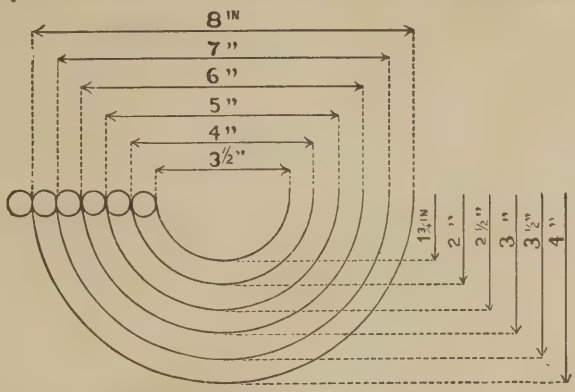


Price Per Dozen.

	Tin.	Galv'd.
2 inch	$3 00	$4 20
2½ "	3 00	4 20
3 "	3 60	4 80
3½ "	4 80	5 40
4 "	5 40	7 20
5 "	9 00	12 00
6 "	12 00	14 00

BERGER'S GALVANIZED EAVES TROUGH.

Made of Galvanized Iron I C and I X in ten foot lengths



EAVE TROUGH WITH LAP JOINT.

For Slip Joint add 1 cent to list.

PRICE LIST.

Girt, . . .	6	7	8	9	10	12	14	16
Size, . . .	3	3½	4	4½	5	6	7	8
IC Terne,	$ 08	09	10	11	12	14	16	19
IX "	$ 09	10	11	12	13	15	17	20
Galv'd .	$ 13	14	16	17	19	23	27	30

For Double beads add 3 cents to list price. Cases for Troughs 25 cents each, net.

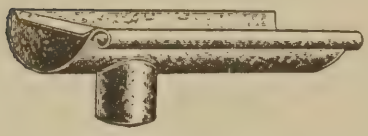
Galvanized Trough is based on No. 28 guage. For heavier add 1 cent per foot to each additional guage.

When ordering Slip Joint Trough always state whether right or left is desired; otherwise will slip half right and half left.

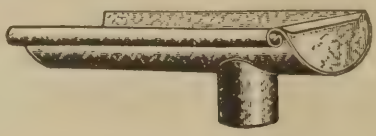
A Case of Troughs consist of 250 feet.

Always state whether Slip or Lap Joint is wanted, also, Galvanized or Terne Plate, so as to avoid delay in shipping

END PIECES WITH OUTLET.



LEFT HAND.

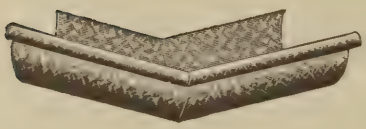


RIGHT HAND.

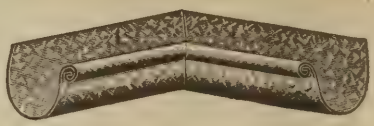
End pieces furnished either with or without ends closed, and charged for at the same rate as Trough, with additional charge for outlets and closing of ends.

When ordering, state size of outlet wanted and exact distance from end to the centre of outlet; also state whether with or without Slip Joint, and whether right or left hand.

MITRES.



Outside Corner Mitre.



Inside Corner Mitre.

These Mitres are made complete, ready for use, for both Inside and Outside Bead, either Slip or Lap Joint.

EAVE TROUGH MITRES WITH SLIP JOINT.

Price Per Dozen, Net.

Size	Galvanized	IX Terne
3½ inch (7 inch girt,)	$3 00	$2 50
4 " 8 "	3 25	2 75
5 " 10 "	3 50	3 25
6 " 12 "	4 00	3 50

For Mitres with Lap Joint take 50 cents per dozen off list.

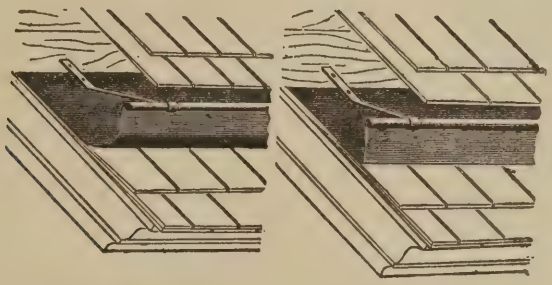
ROOF GUTTERS.

Made in 10 foot lengths of Galvanized Steel.

The following engravings show two styles, A and B, Roof Gutters. The hangers are applied in such a manner as to leave no exposed nail or screw heads [as cuts readily show,] therefore there can be no leaks from splitting or nail holes, as in the old style way with wood fronts and wood brackets.

These gutters are by far the best produced and are sold at prices which make them as cheap as those made of wood lined with tin.

A B



Style A.

14 inch Girt	. . .	35 cents	per foot
20 "	. . . . .	50 "	"
24 "	. . . . .	60 "	"

Style B.

15 inch Girt	. . . . .	37 cents	per foot
20 "	. . . . .	50 "	"
24 "	. . . . .	60 "	"

PAINT BRUSHES.

We keep in stock a line of full Bristle Paint Brushes, suitable for Roof Painting.

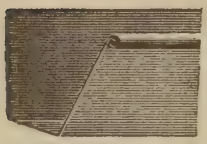
6 inch	. . . . .	each $1 25
7 "	. . . . .	" 1 50
8 "	. . . . .	" 2 00

QUARTER CIRCLE, O. G., AND BOX GUTTERS

Made in 10 foot lengths of Galvanized Steel.

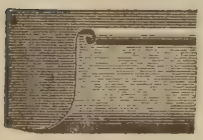
Style C.

12 inch Girt	30	cents per foot
14 "	35	" "
16 "	40	" "



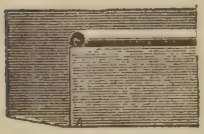
Style D.

15 inch Girt	37	cents per foot
18 "	45	" "
20 "	50	" "



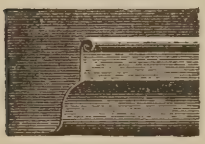
Style E.

15 inch Girt	37	cents per foot
18 "	45	" "
22 "	55	" "



Style F.

18 inch Girt	45	cents per foot
20 "	50	" "
22 "	55	" "

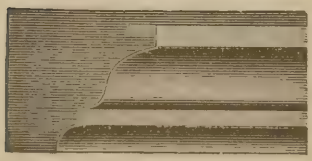


Style G.

18 inch Girt	45	cents per foot
20 "	50	" "
22 "	55	" "

Style H.

14 inch Girt	35	cents per foot
16 "	40	" "
18 "	45	" "



Style J.

18 inch Girt	54	cents per foot
20 "	60	" "
24 "	72	" "

GALVANIZED IRON RIDGING.

In Lengths of 10 feet [120 inches.] without a Seam.

1 1-4 INCH RIDGING.

Price Per Foot.

Diameter of Roll	1¼ inch
Width of Apron	2 "
Girt	7 "
Galvanized	$ 14

1 1-2 INCH RIDGING.

Price Per Foot.

Diameter of Roll	1½ inch
Width of Apron	2 "
Girt	8 "
Galvanized	$ 16

2 INCH RIDGING.

Price Per Foot.

Diameter of Roll	2 inch
Width of Apron	2½ "
Girt	10 "
Galvanized	$ 19

2 1-2 INCH RIDGING.

Price Per Foot.

Diameter of Roll	2½ inch
Width of Apron	2½ "
Girt	12 "
Galvanized	$ 23

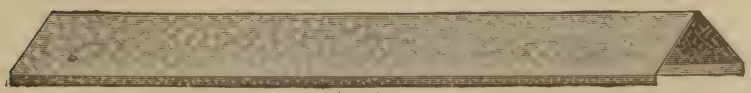
3 INCH RIDGING

Price Per Foot.

Diameter of Roll	3 inch
Width of Apron	3½ "
Girt	15 "
Galvanized	$ 28

V ANGLE RIDGE CAP.

Made of Galvanized Iron in Three Sizes.

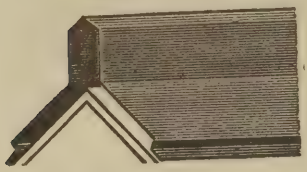


Price Per Foot.

Apron	3 inch	3½ inch	4 inch
Girt	6 "	7 "	8 "
Galvanized	$ 13	$ 14	$ 16

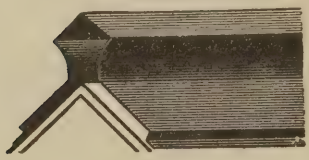
ORNAMENTAL GALVANIZED STEEL RIDGINGS

PRICE PER FOOT.



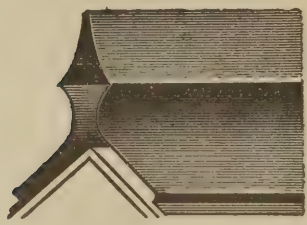
Style A.

Height, inches . .	4¾	6	8
Girt, " . .	12	15	20
Apron, " . .	2½	3½	4½
Price, ... $	15	19	25



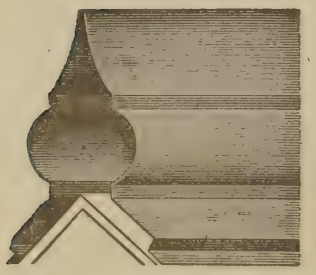
Style B.

Height, inches . .	4½	6	8
Girt, " . .	12	15	20
Apron, " . .	2½	3	4½
Price, ... $	15	19	25



Style C.

Height, inches . .	6¼	8	10
Girt, " . .	15	20	24
Apron, " . .	3	4	4½
Price, ... $	19	25	30



Style D.

Height, inches . .	8	9½	12
Girt, " . .	20	24	30
Apron, " . .	4½	5	6
Price, ... $	26	31	38½

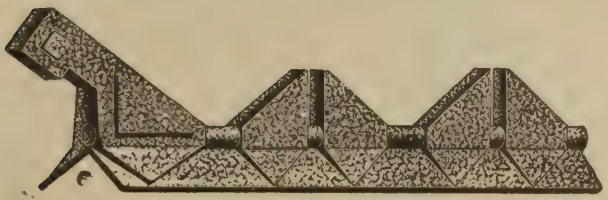
METALLIC CRESTINGS, ORNAMENTS AND FINIALS.

A Complete Terra Cotta Finish in Metal at one-fifth the cost of Earthen Tile.

Made of Galvanized Steel to fit our 1½ or 2 inch Ridging On a Building are the Counterpart of a Finely Finished Terra Cotta.

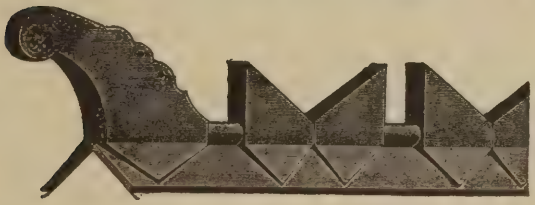
The only Adjustable Ornaments made.

Ornaments, 8 cents each, net.

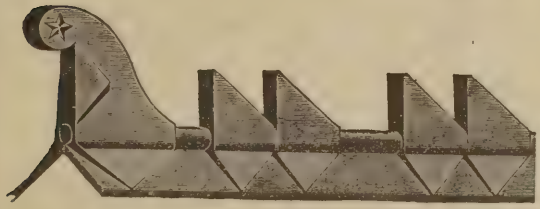


No. 2, Finial

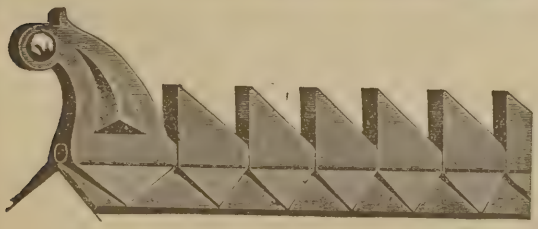
$ 60



No. 3, Finial, $ 75

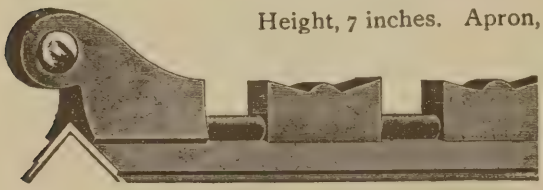


No. 4, Finial, $ 90



No. 5, Finial, $ 90

Height, 7 inches. Apron, 7 inches.



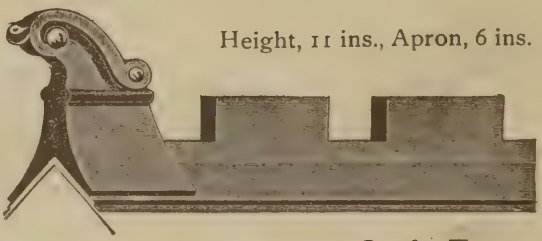
Style D.

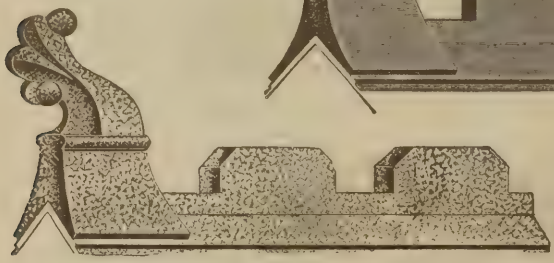
Cresting, per foot. $ 30
Finial 1 25

Style E.

Per foot . . . . . $ 40
Finial 2 00

Height, 11 ins., Apron, 6 ins.



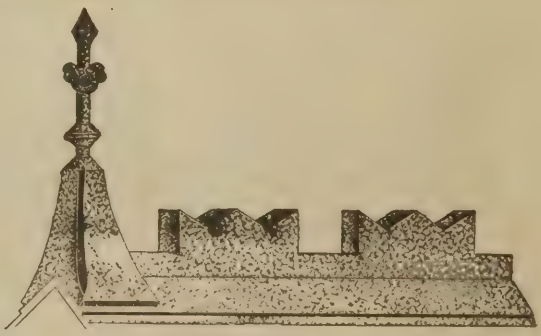


Style F.

Height, 11 ins.
Apron 6 ins.
Per foot . . . . $ 44
Finial 2 00

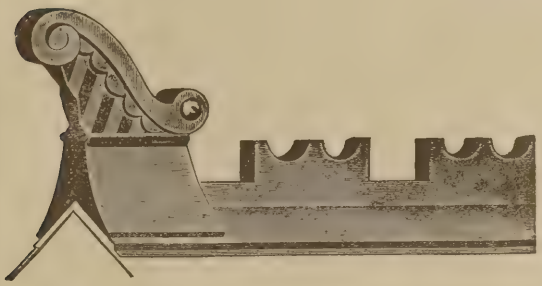
Style G.

Height, 11 ins.
Apron, 6 ins.
Per foot . . . . . $ 46
Finial 2 25



Style H.

Height, 11 ins.
Apron, 6 ins.
Per foot . . . . . $ 48
Finial 2 40



Style J.

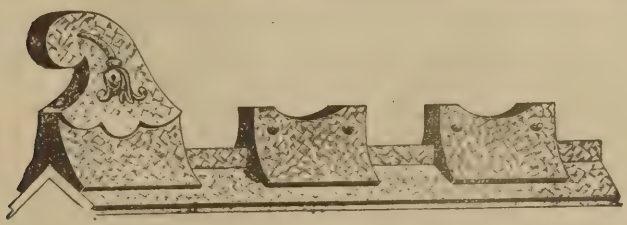
Height, 11 ins.
Apron, 6 ins.
Per foot . $ 48
Finial . . 3 00

Style K.

Height, 11 ins.
Apron, 6 ins.
Per foot . $ 56
Finial, 28in. 4 40

Style L.

Height, 11 ins.
Apron, 6 ins.
Per foot . $ 65
Finial, 22in. 2 95



Style M.

Height, 10½ ins
Apron. 6 ins.
Per foot . $ 66
Finial, 18in. 2 55

FINIALS.

Made of Galvanized Iron.

When ordering Finials state whether Base is to be Square, Round or Octagon, and give Pitch of Roof. Crating at cost

We can make and give estimates on any other design, upon receipt of sketch or cut.

3½ feet high.
No. 206—each, $12 00

3 feet high.
No. 204—each, $8 00

6 feet high.
No. 621—each, $20 00

6½ feet high.
No. 622—each, $24 00

3½ feet high.
No. 205—each, $10 00

4½ feet high.
No. 555—each, $11 00

5 feet high.
No. 624—each, $16 00

6⅓ feet high.
No. 625—each, $24 00

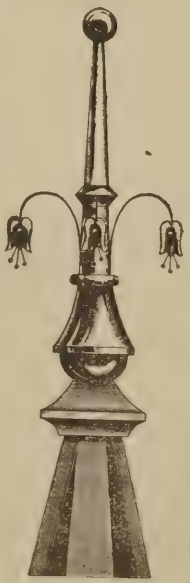
No. 301
Height 3 ft. $7 50

No. 302
Height 3 ft $8 00

No. 323
Height 3 ft. $8 00

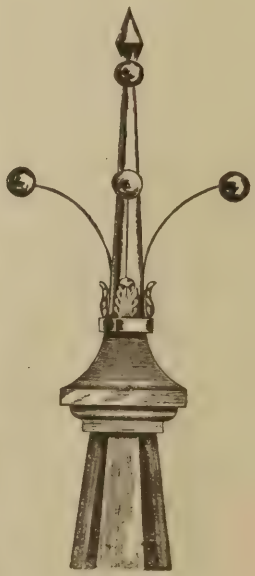
No. 303
Height 3 ft. $9 00

No. 324
Height 4½ ft $21 00



No. 308
Height 4 ft $14 00

No. 307
Height 4 ft. $13 00

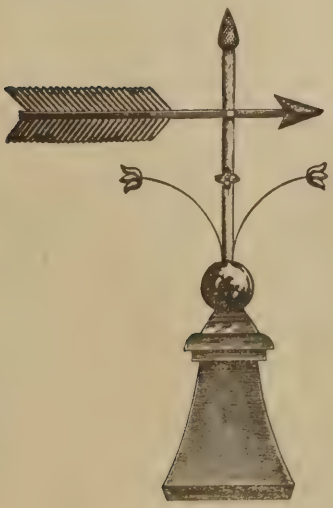


No. 319
Height 4 ft. $14 00

No. 309
Height 4 ft $14 00

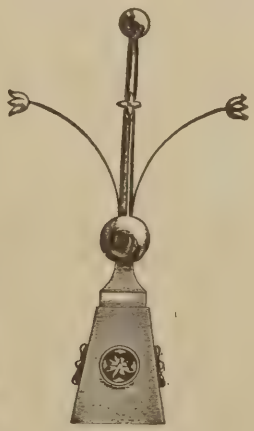
No. 304
Height 3½ ft. $11 00

No. 305
Height 3½ ft. $10 00



No. 317
Height, 3½ ft. $16 00

No. 306
Height 3½ ft. $10 00



No 320
Height 3 ft. $10 50

4½ ft. high.
No. 557—each, $12 00

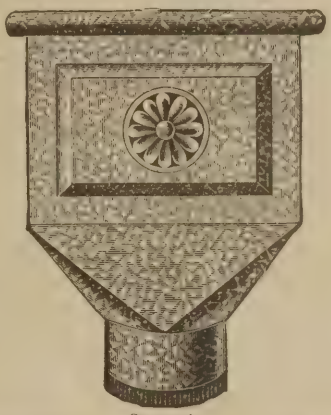
Height, 8½ feet,
No. 626—each, $50 00
Stem of Wrought Iron Pipe.

4¾ ft. high
No. 559, each, $14

4½ ft. high.
No. 553—each, $10 00

4¾ ft. high
No. 560, each, $16

ORNAMENTAL AND STRONG.



NEAT AND DURABLE.

Style, A.

Style, B.

Style C.

Where there are Fire Walls connected Roof Gutters with Conductor Head by a Pipe through an opening in wall.

PRICE LIST.--Galvanized and IX Terne Plate.

Style A.

For 3-inch Pipe, each	$2 00	For 5-inch Pipe, each	$3 00
" 4 " " "	2 25	" 6 " " "	3 50

Style B.

For 3-inch Pipe, each	$2 50	For 5-inch Pipe, each	$3 25
" 4 " " "	2 75	" 6 " " "	3 75

Style C.

For 3-inch Pipe, each	$1 75	For 5-inch Pipe, each	$2 75
" 4 " " "	2 00	" 6 " " "	3 25

With Overflow Lip on Style C, 50 cents extra.
Prices on Heavy Gauge Galvanized and Copper quoted on application.

HOT-AIR REGISTERS AND VENTILATORS.

The Best Finished Registers in the Market.

Size of Opening.	Black or White Japan'd.	Iron Border Japan'd
4x 6	$0 65	$
4x 8	0 70	
4x10	0 85	
4x13	1 00	
4x15	1 15	0 70
4x18	1 45	
6x 8	0 85	0 50
6x 9	0 90	0 50
6x10	0 90	0 55
6x14	1 30	0 75
6x16	1 60	1 05
7x10	0 95	0 60
8x 8	0 90	0 55
8x10	0 95	0 60
8x12	1 05	0 70
8x13	1 50	0 75
8x14	1 55	0 80
8x15	1 80	1 05
8x18	2 90	1 30
9x 9	1 20	0 65
9x12	1 25	0 75

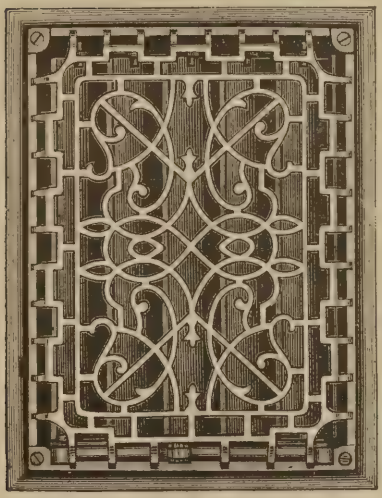
Size of Opening.	Black or White Japan'd.	Iron Border Japan'd
9x13	$1 55	$0 80
9x14	1 60	0 80
9x15	2 00	1 00
9x16	2 20	1 15
9x17	2 85	1 30
9x18	3 00	1 35
10x10	1 30	0 75
10x12	1 40	0 80
10x14	1 60	0 85
10x16	2 30	1 00
10x18	3 10	1 35
10x20	3 85	1 50
12x12	2 15	1 10
12x14	2 40	1 15
12x15	2 50	1 25
12x16	2 75	1 30
12x17	2 90	1 35
12x18	3 20	1 40
12x19	3 35	1 45
12x20	4 00	1 55
12x24	5 25	1 90

Size of Opening.	Black or White Japan'd.	Iron Border Japan'd
14x14	$3 60	$1 30
14x16	3 95	1 45
14x18	4 30	1 55
14x20	4 65	1 70
14x22	4 80	1 80
15x25	7 00	2 20
16x16	4 60	1 70
16x18	5 30	1 85
16x20	5 50	1 95
16x24	6 00	2 20
18x18	7 10	2 35
18x21	8 00	2 70
18x24	8 50	3 00
20x20	7 30	2 50
20x24	8 75	3 00
20x26	9 60	3 40
21x29	11 50	3 50
24x24	11 50	3 50
27x27	14 00	4 25
27x38	21 00	5 50
30x30	18 25	5 25

PRICE LIST, GOLD BRONZED.

Size of Opening	
6x 8	$1 15
6x 9	1 25
6x10	1 35
6x14	1 85
7x10	1 50
8x 8	1 35
8x10	$1 50
8x12	1 70
9x12	2 00
9x14	2 45
10x10	2 10
10x12	2 20
10x14	$2 50
12x12	3 00
12x14	3 45
14x14	4 40
14x16	4 95

SQUARE CONVEX REGISTERS



For Shallow Flues and Thin Partitions.

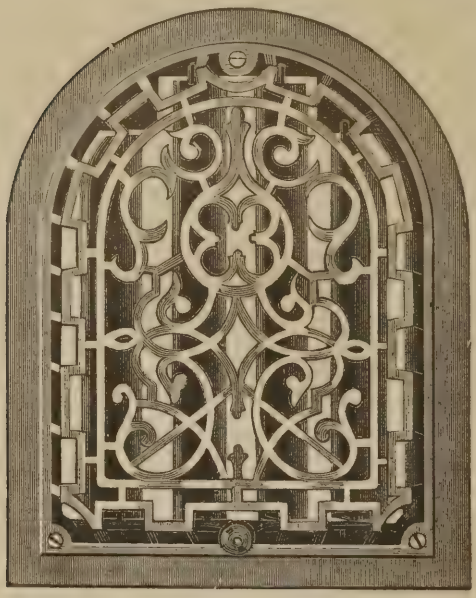
Total depth when open 1¼ inch.

Size of Opening	White or Black Japanned.	Bronzed.
6x 8	$1 25	$1 55
8x10	1 50	2 05
8x12	1 70	2 35
9x12	1 90	2 65
10x12	2 25	3 05
10x14	2 60	3 50

CIRCULAR TOP CONVEX REGISTERS.

Size of Opening.	White or Black Japanned.	Bronzed
8x12	$1 70	$2 35
9x12	1 90	2 65
10x14	2 60	3 50

CIRCULAR TOP REGISTERS.



Size of Opening	White or Black Japanned	White Porcelain Enamel	Bronzed	Brass, Copper or Nickel Plated	Marbleized Stones.
Raised Face					
7x10	$1 00	$	$1 55	$3 00	$
8x12	1 25	5 00	1 90	3 65	2 00
9x12	1 50	5 40	2 25	3 80	2 30
10x14	1 85	7 00	2 75	4 55	2 75
13x11	2 10	6 20	3 00	5 25	3 00

ROUND REGISTERS AND VENTILATORS.

JAPANNED BLACK OR WHITE.

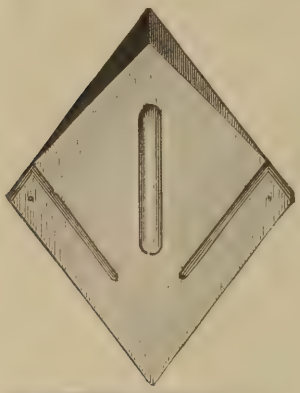
Size of Opening	Register Complete	Cast Border	Slate Stones
6	$ 70	$ 45	$ 45
7	80	50	50
8	90	55	55
9	1 15	65	65
10	1 30	75	75
12	1 80	1 10	1 10
14	2 95	1 30	1 30
16	3 50	1 70	1 70
18	5 35	2 35	2 35

ROUND FLOOR REGISTER.

WITH SQUARE FACE.

PRICE LIST.

7	inch	each,	$ 90
8	"	"	1 10
9	"	"	1 40
10	"	"	1 70

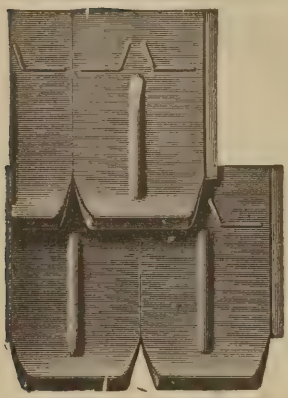


THORN'S DIAMOND PATTERN TILES.

PRICE PER SQUARE.

6x6 inches $10 50
9x9 " 9 00

No Leaking, Breaking or Blowing Off.
Architects Endorse Them.



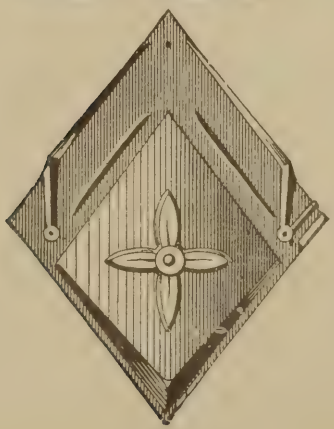
THORN'S SQUARE-NOSED TILES.

Very Unique, the Latest Out.

PRICE PER SQUARE.

8x9 inches $9 25

These Tiles can be put on by any Metal or Slate Roofer.



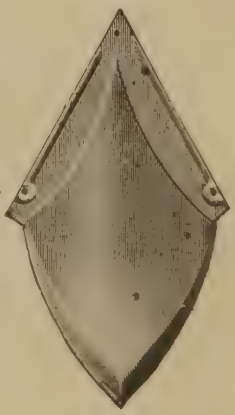
DIAMOND.

MONTROSS SHINGLES

Send for full Illustrated Catalogues of Tiles.

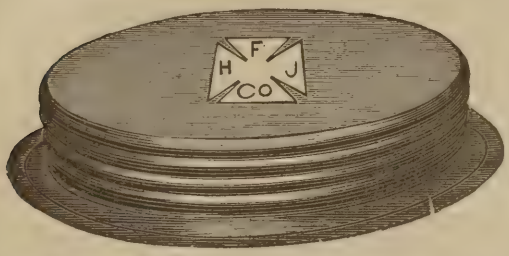
PRICE PER SQUARE.

Gothic Tile . . $9 50
Diamond Tile . 9 25



GOTHIC.

ZINC FRUIT AND MILK CAN SCREWS.



Price List.

Diameter			Per Gross
"	2½ inch,	"	$9 75
"	3	"	10 00
"	3½	"	11 00
"	4	"	12 00
"	4	"	18 00
"	5	"	25 00
"	9	"	33 00

ZINC COFFEE FLASK SCREWS.

½ inch, per gross, cork lined, $1 00, net.

ZINC CAN SCREWS.

Per Gross.

½	inch	$ 4 00
¾	"	4 50
1	"	6 00
1¼	"	8 00
1½	"	12 00
2	"	20 00

CRYSTAL FLUE STOPPERS.

Put up in boxes of one dozen each.

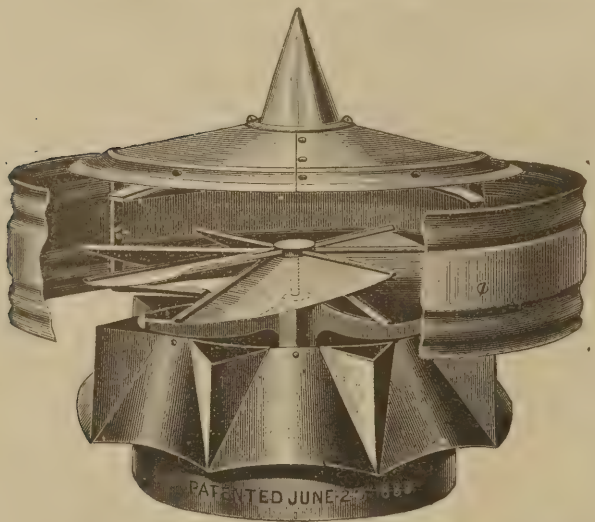
Price, Per Dozen.

Diameter, 8⅜ inches, ... $1 00

Discount . . . . . .

EARL REVOLVING VENTILATORS.

Sure Cure for Smokey Chimneys. Chimney Draft Increased.



Price List.

5	inch .	$ 2 50
5½	" .	2 85
6	" .	3 40
7	" .	4 00
8	" .	4 65
9	" .	5 20
10	" .	5 75
12	" .	6 75
14	" .	13 00
16	" .	20 00
18	" .	27 00
20	" .	33 00
24	" .	40 00
30	" .	65 00
36	" .	90 00
40	" .	120 00
48	" .	150 00
60	" .	225 00

Guaranteed the best cheap Ventilator in the market.

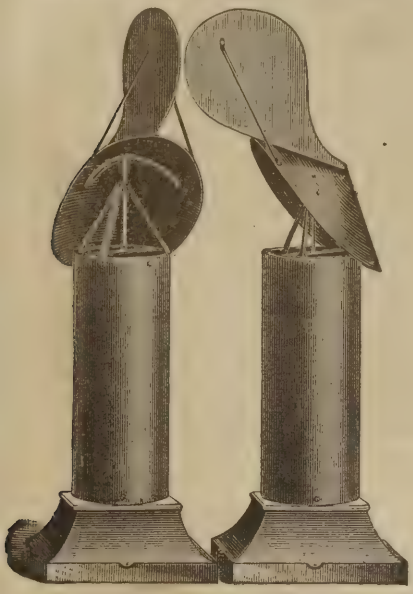
THE STAR VENTILATORS AND CHIMNEY CAPS.

Galvanized Iron.

Inches . . .	2	2½	3	3½	4	4½	5	5½	
Price . . .	$1 00	1 00	1 50	1 50	1 75	2 00	2 50	2 85	
Inches . . .	6	7	8	9	10	12	14	16	
Price . . .	$3 40	4 00	4 65	5 20	5 75	6 75	13 00	20 00	
Inches . . .	18		20	24	30		36	40	
Price . . .	$27 00		33 00	40 00	65 00		120 00	180 00	

ACME PATENT CHIMNEY VENTILATORS.

A Sure Cure for a Smokey Chimney, or a Sluggish Working Ventilating Shaft



Chimney Ventilator Complete.

Rain or Wind can never Blow down in the Chimney.

Can't Help But Draw.

Price of Frame and Hood only.

6 inch	. . . . .	$2 12
7 "	. . . . .	2 30
8 "	. . . . .	2 60
9 "	. . . . .	2 90
10 "	. . . . .	3 40
12 "	. . . . .	4 40

Price of Frame only.

6 inch	. . . . .	$1 12
7 "	. . . . .	1 20
8 "	. . . . .	1 30
9 "	. . . . .	1 40
10 "	. . . . .	1 60
12 "	. . . . .	2 20

PANCOAST VENTILATORS.

Made in all Sizes.

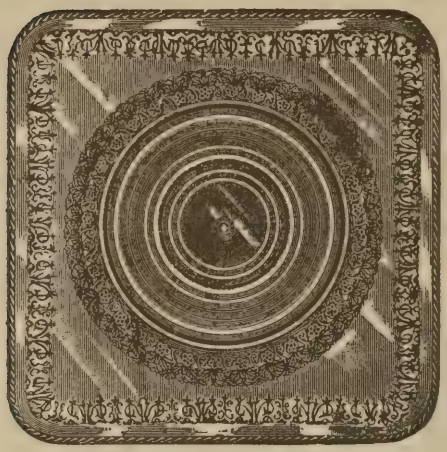
Good Service. Works Well.

PRICE LIST.

		Galvanized
2 inch	. . . . .	$1 00
3 "	. . . . .	1 50
4 "	. . . . .	1 75
5 "	. . . . .	2 50
6 "	. . . . .	3 40
7 "	. . . . .	4 00
8 "	. . . . .	4 65
9 "	. . . . .	5 20
10 "	. . . . .	5 75
12 "	. . . . .	6 75

Also in Copper.

PAPER LINED ZINC BOARDS.



ROUND

	Doz.	Each
24 inch	$4 80	$ 40
26 "	5 40	45
28 "	6 00	50
30 "	6 60	55
32 "	7 20	60
34 "	7 80	65
36 "	8 40	70

SQUARE

	Doz.	Each
24 inch	$5 40	$ 45
26 "	6 00	50
28 "	6 72	56
30 "	7 56	63
32 "	8 64	72
34 "	9 72	81
36 "	10 80	90

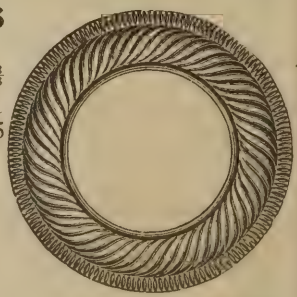
OBLONG

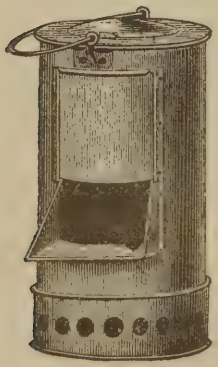
	Doz.	Each
28x32	$7 80	$ 65
30x36	9 00	75
32x42	10 08	84

ROYAL STOVE PIPE COLLARS

Patented.

Outside Measure,	7⅞	7¾	8¼	8⅞	9⅝	10¾	12⅜
Size	4	4½	5	5½	6	7	8
Price per Doz., $	20	25	30	35	40	50	75





GALVANIZED SHEET-IRON FIRE POTS.

Each $1 50

MORNING-GLORY COAL HODS.

Price Per Dozen.

No.	Inches.	Galvanized	No.	Inches.	Japanned
45	15	$10 00	55	15	$7 00
46	16	11 00	56	16	7 50
47	17	12 00	57	17	8 00
48	18	13 50	58	18	9 00

PATENT PRESSED CORRUGATED BOTTOM.

Square Mouth.

Price Per Dozen.

No.	Inches.	Galvanized	No.	Inches.	Japanned
4	14	$ 7 00	14	14	$5 00
5	15	7 50	15	15	5 50
6	16	8 00	16	16	6 00
7	17	8 50	17	17	6 50
8	18	10 00	18	18	7 00
9	19	12 50	19	19	8 50

GALVANIZED WATER BUCKETS.

Price per Dozen.

Small, 2 gallons	$ 6 50
Medium 3 "	7 00
Large 4 "	9 00
Medium, with Lips	9 00
Large, "	13 00

GALVANIZED CHAMBER PAILS.

Price per Dozen.

	Plain	Striped
No. 1,	$ 7 75	$ 8 75
No. 2,	9 50	10 50
No. 3,	11 00	12 00

GEM STOVE SHOVELS

Price per Gross.

No. 15	Gem, japanned	. .	$15 00
" 20	" "	. .	18 00
" 25	" "	. .	25 00
" 54	Victor, "	. .	12 00
" 55	" "	. .	16 00
" 56	" "	. .	18 00
" 57	" "	. .	25 00
" 255	" galvanized	.	21 00
" 257	" "	.	35 00
" 155	" tinned	. . .	24 00
" 85	Vulcan, japanned	.	9 50

STOVE SHOVELS.

Price per Gross.

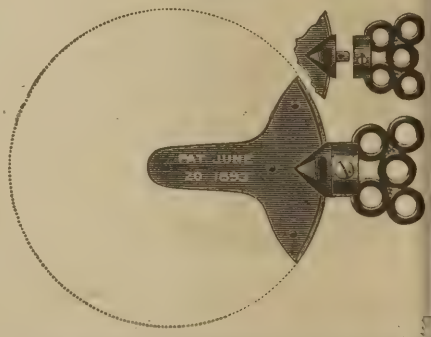
Patent Wood Handle, fastened	$20 00
No. 2, " " common size	17 00
No. 3, " " large "	20 00
No. 5, Short Iron Handle, common size	18 00
No. 7, Medium Iron " " "	21 50
No. 9, Long " " " "	27 00
No. 10, " " " " "	30 00

POKERS.

Price per Dozen.

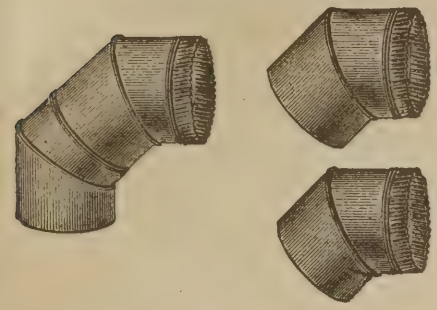
No. 1,	¼	in. long,	16	ins. long	$	60
No. 2,	$\frac{5}{16}$	" "	16	" "		70
No. 3,	$\frac{5}{16}$	" "	20	" "		90
No. 4,	⅜	" "	20	" "	1	12

COLUMBIA DAMPER CLIP.



The set screw works on a slot inclined to the damp proper so that the damper will stay wherever set and if pipe is worn a turn of the set screw will make same tight again. Price 60 cts. per Dozen.

PEERLESS TWIN HOT-AIR ELBOW.



Price per Dozen.

	IX Tin	Galvanized Iron
6 inch,	$4 80	$6 00
7 "	6 00	7 20
8 "	7 20	9 60
8½ "	7 20	9 60
9 "	8 50	10 52
10 "	9 60	12 00
12 "	13 20	14 25

The cuts shown above represent our Twin Elbow. The advantages in using the Twin Elbow are many; it can be adjusted to any angle required, and disconnected, can be used as two separate elbows.

The trade will readily see the convenience and economy in using the Twin Elbows.

FIVE PIECE HOT-AIR ELBOWS.

Price List.

	IX Tin	Galvanized
6 inch,	$ 6 25	$ 6 25
7 "	7 00	7 00
8 "	8 00	8 00
8½ "	10 00	10 00
9 "	12 00	12 00
10 "	13 50	13 50
12 "	20 00	20 00

STAR ELBOWS.

Made of Cleaned Iron,

Price per Doz.

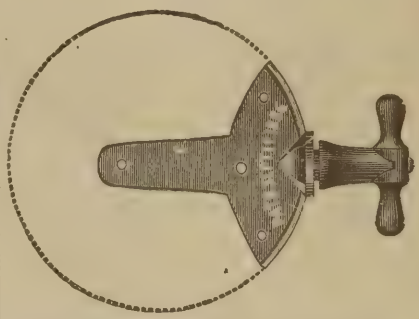
4 inch,	$ 65
4½ "	70
5 "	75
5½ "	85
6 "	90

IMPROVED DAMPER CLIPS.

Price per pound . . . . . $ 10

Made with solid rivets and extra holes.

BUFFALO DAMPER CLIPS.



Black Enameled Wood Handles.

No. 1, per dozen $1 25

AMERICAN DAMPERS.

Patented.

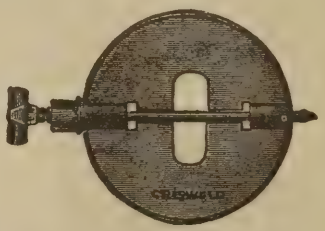
Price per Dozen—Wood Handle.

3	inch,	$1 00
4	"	1 00
4½	"	1 13
5	"	1 25
5½	"	1 38
5¾	"	1 50
6	"	1 50
6½	"	2 00
7	"	2 00

Solid Plate and Iron Handle, Japanned.

8	inch	$2 75
9	"	3 25
10	"	4 00

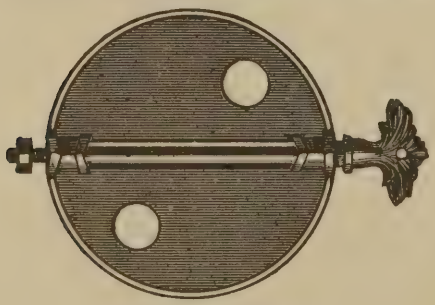
Ship 3 to 7 inches with Wood Handles.



PLAIN DAMPERS.

Per Dozen.

4	inch,	$ 45
4½	"	55
5	"	65
5½	"	75
6	"	85
6½	"	1 00
7	"	1 12



Price per pound, in bulk.

HOT AIR.

7	inch,	$1 25
8	"	1 50
8½	"	1 75
9	"	2 00
10	"	2 50
11	"	3 00
12	"	3 50

OBLONG SQUARE CORNER HOT-AIR DAMPERS

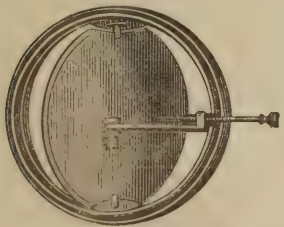
For Brick Flues.

4x6 inch,	2	slats . . .	each, $	34
4x9 "	2	" . . .	"	38
6x6 "	3	" . . .	"	36
6x9 "	3	" . . .	"	44
8x8 "	3	" . . .	"	48
9x9 "	3	" . . .	"	56

Square, for Tin Flues

2¾ x 8 inch, ...	$	26
2¾ x 9 "		28
3 x 8 "		28
3½ x 8 "		30
3½ x 10 "		34
4 x 8 "		34
4 x 9 "		36
4 x 10 "		38
4 x 12 "		40

ROUND DAMPERS TO PULL.

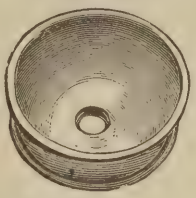


Inches . .	6	7	8	8½
Each . . $	48	52	56	60

TIN FLUE DAMPER CUPS.

Per dozen, net, ... $ 70

SHALLOW PORCELAIN CUPS.



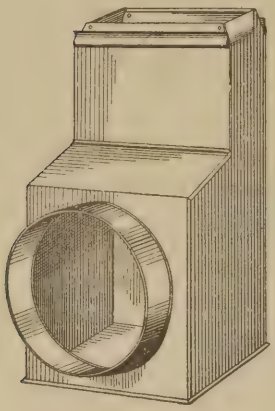
Per dozen, net, ... $ 75

NICKEL DAMPER KNOBS.

Per dozen, net, ... $ 60

DAMPER RODS.

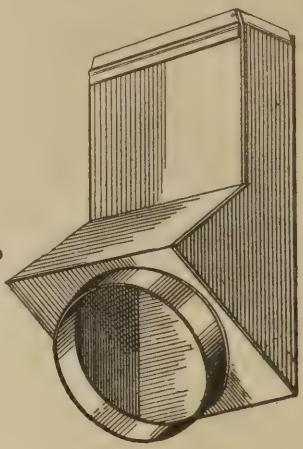
Per doz. net 2 to 4 inch . . . . . $ 20
" " " 4 to 8 " 30



No. 1.

FOOT BOXES.

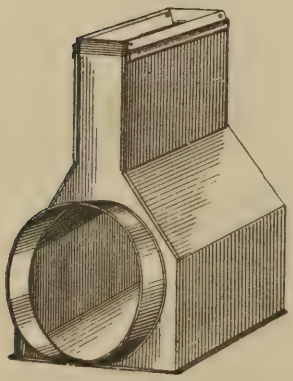
Price per Dozen $14 00



No. 2.

FOOT BOXES.

Price per Dozen $13 00

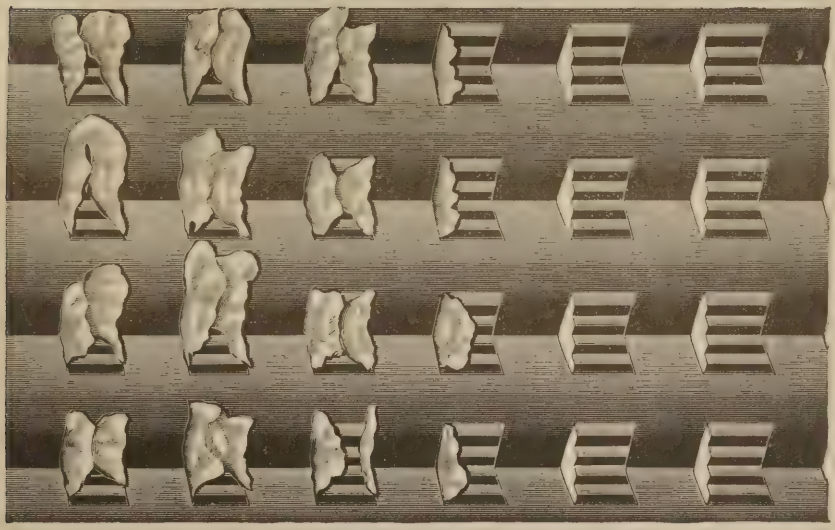


No. 3.

FOOT BOXES.

Price per Dozen $14 00

COLUMBIA FIRE PROOF STEEL LATH.



CHEAP. STRONG. DURABLE.

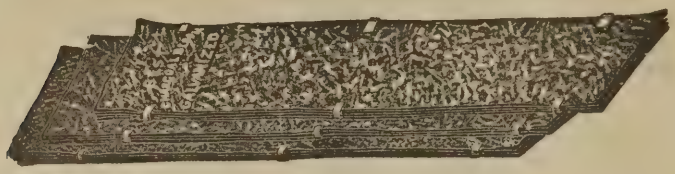
Size, 27x48 inches, containing one square yard. Price 30 cts. per sq. yard

IX BRIGHT HEATER PIPE.

Price per Foot.

Round.		Square.
6	inch, 16 cts. ft.	3½ x 6 inch, 20 cts. ft.
7	inch, 16 cts. ft.	2¾ x 9 inch, 28 cts. ft.
8	inch, 20 cts. ft.	2½ x 10 inch, 28 cts. ft.
8½	inch, 20 cts. ft.	5 x 10 inch, 36 cts. ft.
9	inch, 24 cts. ft.	5 x 10½ inch, 36 cts. ft.
10	inch, 28 cts. ft.	4 x 12 inch, 36 cts. ft.
12	inch, 32 cts. ft.	6 x 12 inch, 40 cts. ft.
15	inch, 36 cts. ft.	7 x 12 inch, 40 cts. ft.

GALVANIZED AND BLACK SHEET IRON.



List Prices, Standard Sizes, Galvanized.

Nos. 14 to 16	$ 12
Nos. 17 to 21	13
Nos. 22 and 24	14
Nos. 25 and 26	15
Nos. 27	16
Nos. 28	17

Additional prices on extra sizes. On No. 19 and lighter, as follows:

Less than 24 inches in width, per pound,	$ 01
Over 32 inches to 36 inches, inclusive, "	01
Longer than 120 inches "	01

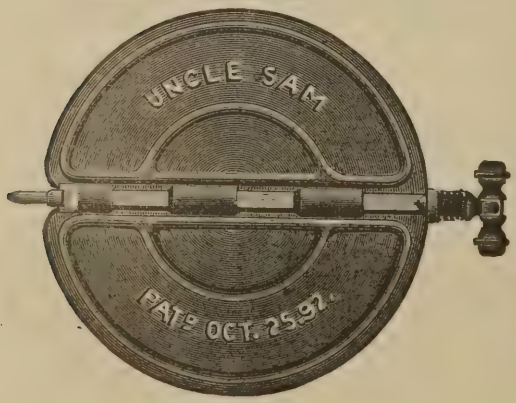
For sizes wider than 36 inches, special quotations.

RUSSIA SHEET IRON.

Market Prices.

PATENT PLANISHED IRON.

Market Prices.



THE UNCLE SAM DAMPER.

Price List.

5 inch,	per doz.		$1 20
6 "	"		1 34
7 "	"		1 48
8 "	"		1 64
9 "	"		1 82
10 "	"		2 00

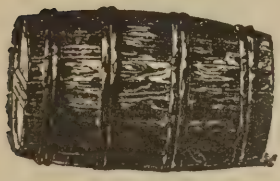
DOUBLE CUTTING SHEARS.

Price List.

No. 1 small for tin . . . each, $2 25
No. 2 medium " and wood " 3 00

A handy useful Tool. Try one and save time.

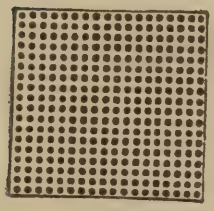
ROSIN.



Clean, for Tinners use.

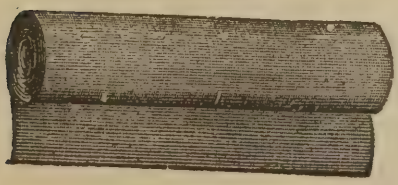
Full Barrels about 350 lbs. or smaller quantities
Barrel lots 1 cent lb. Small lots 2½ cent lb.

PERFORATED TIN.



10X14			14X20		
No. 1 per doz. . .		$1 10	No. 1 per doz. . .		$2 20
No. 2	" . .	1 05	No. 2	" . .	2 10
No. 3	" . .	1 00	No. 3	" . .	2 00
No. 4	" . .	1 00	No. 4	" . .	2 00

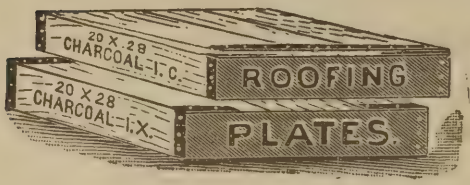
BRASS STRAINER CLOTH.



Full Roll, 5 square feet . . $ 75

Small quantities, per foot . . 18

BRIGHT AND TERNE PLATES.



14x20 20x28

Market Prices.

All standard grades carried in stock.

L. D. B.
I. C.
Roofing.

HEAVY COATED TIN.

The Cost is Small but the Satisfaction is Great

$11 50 Per Box. Try Some.

L. D. Berger's
OLD
Method.

The Finest Roofing that can be made
Fully Guaranteed
High Grade Fine Quality
Price $13 50 Per Box.

TIN ROOFING.

Ready to Lay on the Roof. As Cheap as you can put it together.

We have all grades in stock. Well Soldered, Seamed and Painted.

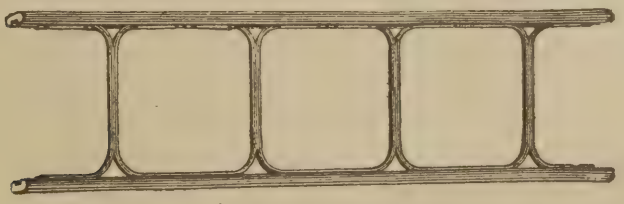
Prices from $2 00 Per Roll up to $5 co. Try some and save your time.

BERGER'S SELF-CAPPING STEEL ROOFING.

A FEW POINTS RELATING TO STEEL OR IRON ROOFING.

Everybody knows that iron or steel roofing is absolutely fire-proof and the saving of more property from destruction by fire can be attributed to this one fact than to anything else, as a saving medium. It is plain, and no one can help but see the economy in buying material for roofing.

PATENT BENT RUNG LADDER.



Feet	10	12	14	15	16	17	18	19	20
Single Ladders . .	$2 50	3 10	3 70	4 00	4 30	4 60	4 90	5 25	5 60
Extension " . .	$7 40	8 90	10 40	11 20	12 20	13 60	14 40	15 20	16 00

Cheapest and best on the market.

CORRUGATED IRON.

Painted Black Galvanized

In Sheets, 5, 6, 7, 8, 9, 10 ft. lengths

V. CRIMP IRON ROOFING.

Painted with Wood Strips

In 5, 6, 7, 8, 9, 10 feet Lengths

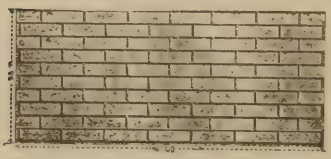
BEADED IRON SIDING.

Painted.

In 5, 6, 7, 8, 9, 10 Feet Lengths.

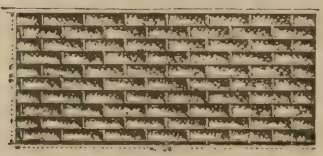
WEATHER BOARD SIDING.

Painted.



STEEL PRESSED BRICK.

Painted and Galvanized.



ROCK FACE BRICK SIDING.

Painted and Galvanized.

GUARANTEE PAINT

60 Cents Per Gallon.

Covering qualities (400 ft. to gal.) making a perfect covering, thereby preventing Rusting and Rotting. Will not Blister, Crack or Granulate, as all other paints are liable to do.

Will not wash off if rain comes fifteen minutes after applying.

Acid and Alkali Proof.

Will adhere to greasy as well as dry roofing plate, new as well as old roofs, stopping leaks if not more than ⅛ inch in size.

One coat of **Guarantee Paint** covers the surface as well as two or three of any other paint made.

Can be used in the hottest weather as well as at any other time, as it will harden under the hottest sun.

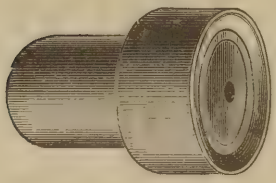
It hardens perfectly all through, if put on thick or thin, thereby forming a perfect cement, at the same time retaining elasticity enough to expand with the metal.

Put Up in One Gallon Cans.

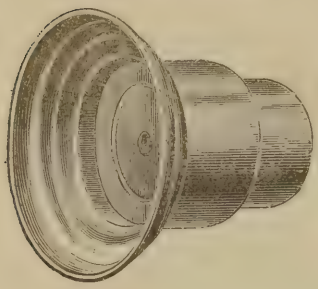
PUTTY

In 25 Pound Cans, - 2½ Cents Per Pound, Net.

DANDY.

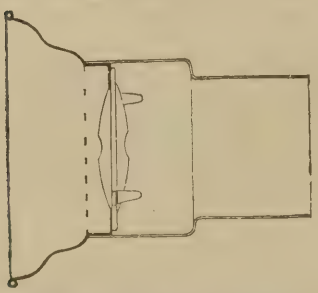


PEERLESS.

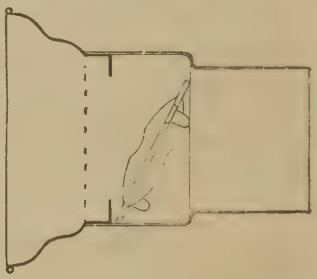


ROSS PATENT PNEUMATIC WHISTLE.

No.		Per Doz.
1.	Japanned Whistle	$2 50
2.	Polished Brass Whistle	2 75
3.	Nickeled	2 75
7.	Japanned Body, and Mouth-piece without Indicator	4 00
8.	Same as No. 7, with Indicator	4 50
9.	Polished Brass Mouth-piece and Japanned Body, without Indicator	4 50
10.	Same as No. 9, with Indicator	5 00
11.	Nickeled Brass Mouth-piece and Japanned Body, without Indicator	4 50
12.	Same as No. 11, with Indicator	5 00
13.	Porcelain Mouth-piece, Japanned Body without Indicator	4 50
14.	Same as No. 13, with Indicator	5 00
15.	Polished all Brass Whistle, without Indicator	6 00
16.	Same as No. 15, with Indicator	7 00
17.	Nickeled all Brass Whistle, without Indicator	6 00
18.	Same as No. 17, with Indicator	7 00

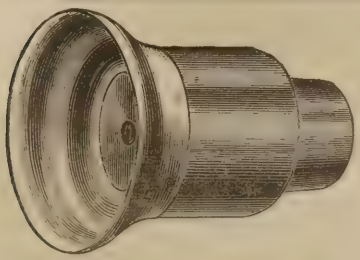


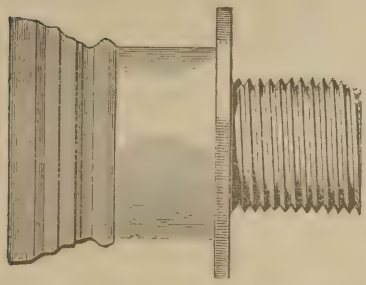
Position of whistle blown against mouth-piece sounding alarm.



Natural position of whistle resting on feet ready for communication.

Simple in Construction—Not Easily Broken—No Loosened Cranks—No Broken Springs.

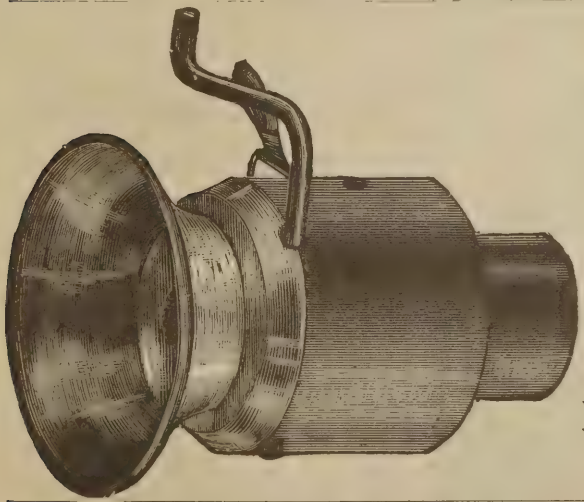




EXCELSIOR.

[Removable Mouth-piece]

No.		Per Doz.
25.	Nickeled Solid Cast Brass Whistle without Indicator	$25 00
26.	Same as No. 25, with Indicator	28 00
27.	Polished Solid Cast Brass Whistle without Indicator	25 00
28.	Same as No. 27, with Indicator	28 00
32.	Polished Solid Cast Brass Whistle with Flange, without Indicator	35 00
33.	Same as No. 32, with Indicator	38 00
34.	Nickeled Solid Cast Brass Whistle with Flange, without Indicator	35 00
35.	Same as No. 34, with Indicator	38 00
38.	Nickeled Solid Cast Brass Flanged Whistle, without Indicator	42 00
39	Same as No. 38, with Indicator.	45 00
40.	Polished Solid Cast Brass Flanged Whistle, without Indicator	42 00
41	Same as No 40, with Indicator	45 00



ROUND SPEAKING-TUBE WHISTLE.

Price Per Dozen

Japanned

With Indicator, $4 50
Without " 4 00

Nickeled

With Indicator, $7 00
Without " 6 00

STANDARD SPEAKING-TUBE.

1 inch	per ft.	$ 03
1 " sq. elbow	per doz ..	60
1 " stamped	" ..	1 00
1 " " Tees..	each	20

5-lb. Can.

BLACKENE.

It is Blackest, Quickest, Most, Brilliant, Labor-saving, Economical Unequalled and Guaranteed the Best.

Give Blackene a Trial.

5-lb. Can Net . . . . . $ 50

"DAT NUBIAN AM BLACKER DEN ME'H"

NUBIAN
IRON ENAMEL.

Its uses are innumberable. We mention a few, viz: For Grates, Fenders, Mantels, Stove, Pipes, Heating Drums, Register, Sinks, Steam Pipes, Engines, Boiler Heads, Ranges, Furnaces, etc. For Portable Engines it is the only article that has ever given satisfaction. Also, for all kinds of iron work, agricultural implements, and farm machinery, where for protection or ornamentation a coating is desirable

It is unaffected by the strongest acids or alkalies which makes it of great service in coating the brine or frost pipes in breweries.

We would respectfully call the attention of builders and owners of business property to the perfect protection from rust secured by the use of this material upon steam, water, and gas pipes in buildings.

Price per Dozen, Net—Best Quality.

½ pint Cans, with Brush, for family use. (Packed in cases of 2 and 3 dozen each)	$2 00
Pint Cans	3 25
Quart Cans	4 75
½ Gallon Cans	9 00

BLACK DIAMOND ROOFING.

A—Method of unrolling and laying felt.
B—Showing lap of top width over lower one.
C—Showing slice of the felt.
P—Showing method of securing felt at eaves gutter.

TWO-PLY.

1 Roll Two-Ply Felt.
2 Gallon Slag Cement.
1 lb. Tin Caps.
1 lb. Barb Wire Nails.
Cost of one Square, complete $2 25

THREE-PLY.

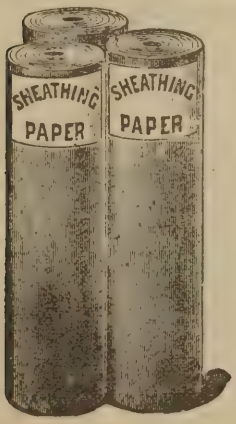
1 Roll Three-ply Felt.
2 Gallon Slag Cement.
1 lb. Tin Caps.
1 lb. Barb Wire Nails.
Cost of one Square, complete . . . $2 75

ROOFING TIN CAPS.

These Caps are used to fasten all kinds of Felt Roofing to the sheating boards. They are 1¼ and ¾ inches in diameter, being punched to admit the nail [see cut.] They should always be used in fastening complete Roofing. One pound sufficient to fasten 100 sq ft. of Roofing.

In Kegs, containing 50 lbs., per lb. . . . . $ 10

Also in smaller packages.



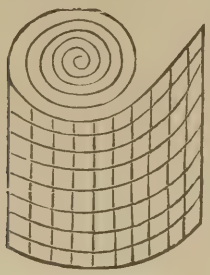
BERGER'S

SHEATING PAPERS.

800 square feet in roll, net . . . . . $ 90
500 " " " " " 50

The paper is strong, well finished, and of a good Color. Also Slaters Roofing Felt.

PLASTERING WIRE.

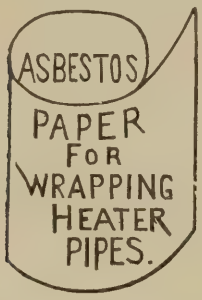


Sizes—12, 14, 16, 18, 20 inches.
Price per foot, ... $

SHEET ZINC.

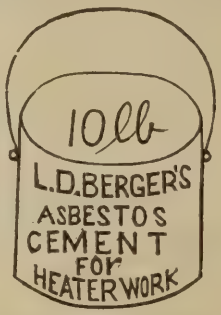
Sizes—24, 26, 28, 30, 36, 40, 48, 52 ins.
Price per pound . . . . . $

ASBESTOS PAPER.



For Wrapping Heater Pipes.
36 inches wide.
Small lots, per lb., net, ... 7 cts.

ASBESTOS CEMENT.



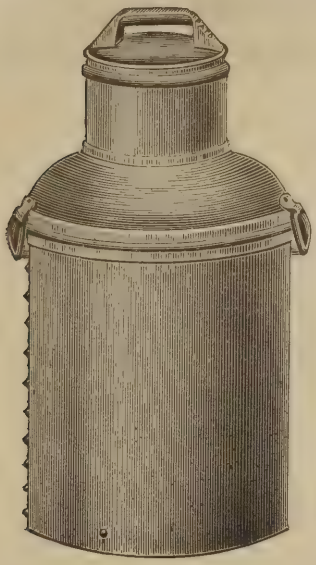
For Heater Work.

2 lb. Cans, net, ...	$	20
5 lb. " "		45
10 lb. " "		70

IRON STOVE CEMENT.

1 lb. Cans, per lb., net, ...	$	08
2 lb. " " "		07
5 lb. " " "		05
10 lb. " " "		04
25 lb. " " "		03½

RAILROAD MILK CANS.--Philadelphia Pattern.



CANS MADE UP.

20 quart, dry measure, each, net. . . .	$2 00
30 " " " " . . .	2 50
40 " " " " . . .	2 75

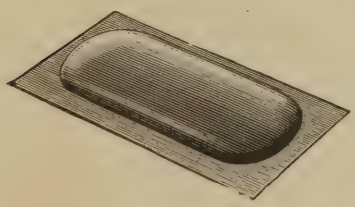
STOCK FOR PHILADELPHIA CANS.

20 quart, dry measure, per set, net, . .	$1 68
30 " " " " " . .	2 24
40 " " " " " . .	2 49

A set of Philadelphia Milk Can Stock consists of all the parts for making a complete Can, except rivets and solder.

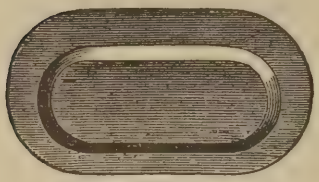
OVAL RIMMED BOILER COVERS.

Nos.	7	8	9
Ins.	10X19¾	11¾X21⅞	12⅞X23⅞
Per Doz. .	$ 85	95	1 05



FLAT EDGE BOILER COVERS.

Sizes,	6	7	8	9
Nos.,	06	07	08	09
Ins ,	9½x18¼	10½x20¼	12⅜x22½	13⅜x24½
Per Doz.	$ 50	60	75	85



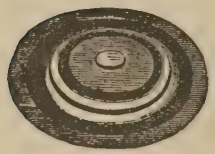
METALLIC BOILER BOTTOMS.
COPPER BOILER BOTTOMS

Market Prices. All Sizes.

COFFEE POT COVERS.

Inches, . . .	3	3¼	3½	3¾	4	
Per Gross, .	$ 33	38	48	50	54	
Inches, .	4¼	4½	4¾	5	5⅜	5¾
Per Gross, .	$ 57	60	66	75	88	90

BUCKET COVERS.



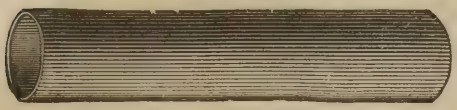
Sizes, .	2		3		4		6
Inches, . .	$6\frac{5}{16}$		$6\frac{7}{8}$		$7\frac{3}{4}$		$8\frac{5}{8}$
Per Doz., .	$ 13		15		17		21
Quarts, . .	8	10	12	14	16	18	20
Inches, . .	9⅛	9½	10½	11½	12½	13	13½
Per Doz., .	$ 25	26	32	38	45	51	55

FRUIT CAN TOPS AND BOTTOMS.

Cover to Cement.

4¼ inch diameter. 3½ inch opening.

Covers, Breasts, Bottoms complete.



STOVE PIPE.

All sizes kept in stock.
Inches, 4, 4½, 5, 5½, 6

McGUIRES' STAR THIMBLE.

5 inch, 6 to 12 inch extension, per doz . . . $11 00
6 inch, 6 to 12 inch extension, per doz . . . 12 00
7 inch, 6 to 12 inch extension, per doz . . . 14 00

CHARCOAL.

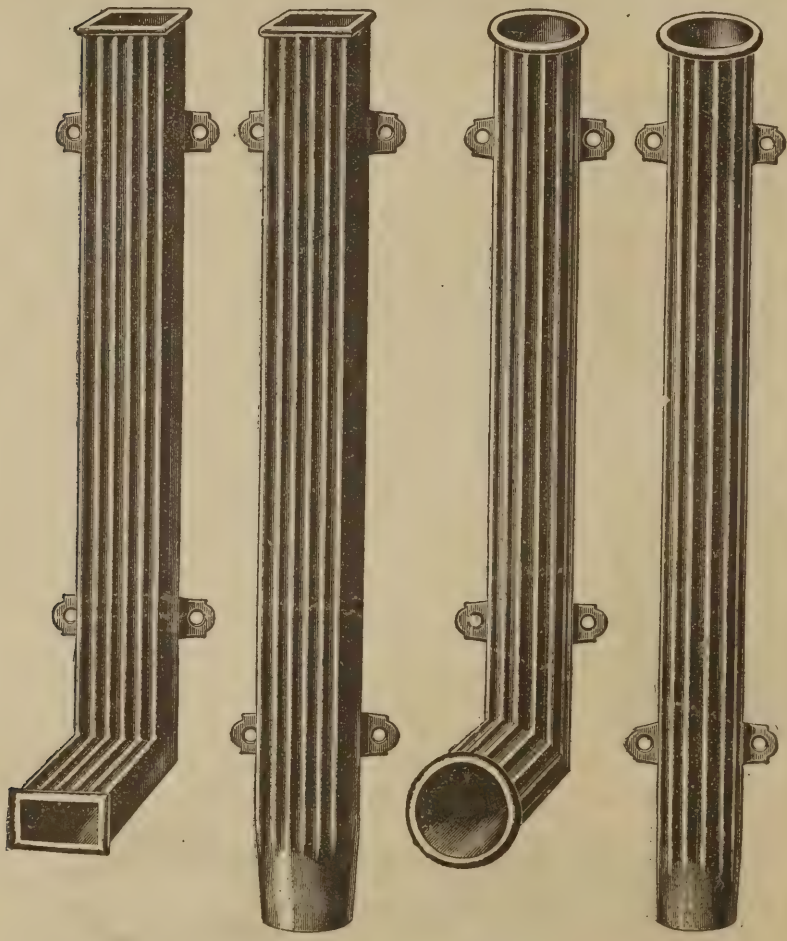
Price, per bag . . . . . net, 5cc.

LEMON SQUEEZERS.

The latest and best in the market.

8 inch per doz. . . . . $1 25 10 inch, per doz. $1 75
Discount . . . . . per cent.

CAST IRON LEADER SHOES AND SEWER CONNECTIONS.



No. 4. No. 3. No. 1. No. 2.

PRICE LIST.

No. 1 or No. 2, 55 inch . . . . . 3 inch, $2 50 . . 4 inch, $3 75
No. 3 or No. 4, 48 inch . . . . . 3 inch, 3 50 . . 4 inch, 4 50

GLOBE

Tinners' and Plumbers'

WONDER.

Be Progressive and Use the Best

FURNACE

—Extant—

Price, ... $6 00 Net.

ADAMS MECHANICS VISE.

Price . . . $3 00

With Drill Attachment

$5 00

Steel Jaws

Steel Screw

Built for Work.

IMPROVED MACHINE-MADE STEEL STAMPING LETTERS AND FIGURES.

On account of the many inquiries for a cheaper grade of Steel Stamps, we are now prepared to furnish Machine-Made Steel Letters and Figures, for stamping all kinds of metal, wood and leather.

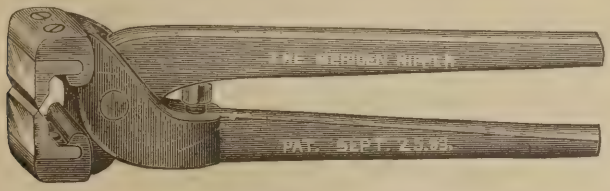
In outline, these Figures and Letters are equal to any made by hand, simply because thousands of them—exact duplicates—are made from one original, or pattern, upon which as much work is put as upon ten ordinary figures or letters. All these figures and letters are made upon the best cast steel, carefully hardened and tempered, but, of course, have not the strength and durability of Hand-Made Letters and Figures, but for leather, wood, soft metals, etc., will give satisfaction. We can only furnish these letters and figures in sizes given in prices below.

PRICE LIST.

SIZE.	Fig. per set of 9.	Letters per set of 27	SIZE.	Fig. per set of 9.	Letters per set of 27
1-32 inch,	$1 25	$ 3 75	5-32 inch,	$1 13	$ 3 39
1-20 "	1 13	3 39	3-16 "	1 25	3 75
1-16 "	90	2 70	1-4 "	1 50	4 50
1-12 "	90	2 70	5-16 "	1 75	5 25
3-32 "	90	2 70	3-8 "	2 50	7 50
1-10 "	90	2 70	7-16 "	3 50	10 50
1-8 "	90	2 70	1-2 "	4 50	13 50

MERIDEN CUTTING NIPPERS.

Todd's Patent, Sept. 25, 1883.



Length, inches	7½	9	11	12	13
Width of cutter, inches	1¼	1¼	1½	1¾	1¾
Price, per pair	$1 25	1 50	1 75	2 00	2 25

All sizes duplicate cutters, warranted to fit, per Pair, ... $ 35

★ STAR NIPPER ★

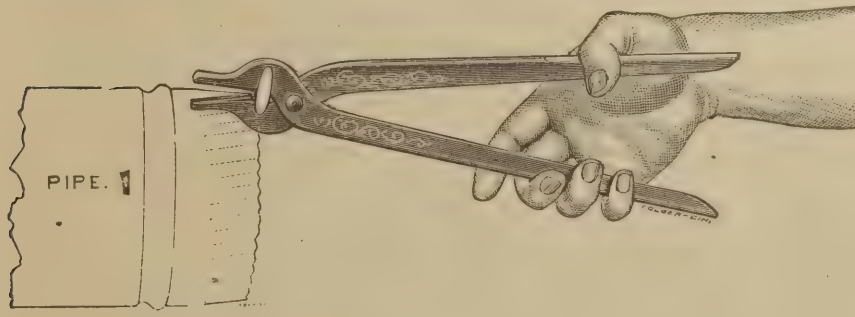
The easiest cutter and the best constructed nipper ever put into the hands of workmen. It is made from the best Jessop's steel, is well tempered, and guaranteed free from flaws.

Price List, Each.

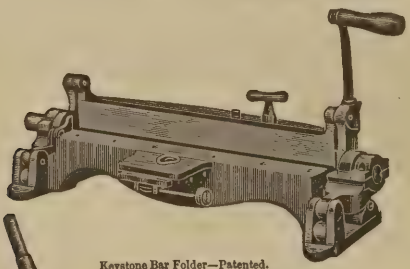
No. 1 (7 inch) $1 25
No. 2 (9 inch) 1 75
No. 3 (12 inch) 2 50

PACKHAM'S HAND CRIMPING TONGS.

Packham's each, ... $1 00



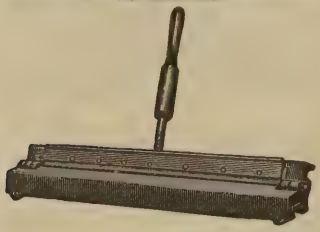
FOLDING MACHINES.



Keystone Bar Folder—Patented.

Wood Bottom Folder.

Iron Bottom Folder.



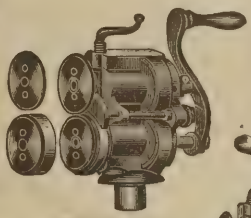
Improved Folder.

Wright's Folder, with Fairchild's Attachment.

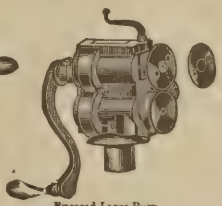
Keystone Bar Folder,	17	inches,	lock 3-32 to 1 inch,	$25 00
" " "	20	"	" 3-32 to 1 "	30 00
" " "	30	"	" 3-32 to 1 "	40 00
" " "	36	"	" 3-32 to 1 "	65 00
" " "	42	"	" 1/8 to 1 5/8 "	80 00
Excelsior "	30	"	with spring attachment for counterbalancing the bar	50 00
" " "	36	"	" " " " " "	75 00
" " "	42	"	" " " " " "	90 00
Wright's "	42	"	lock 3-16 and 5-16 inch	20 00
" " "	30	"	" 3 16 and 5-16 "	12 00
" " "	30	"	with Fairchild's attachment, lock 5/8, 1/2, 5-16 3-16 inch	16 00
Wood Bottom "	48	"	lock 3-16 to 1/2 inch.	20 00
" " "	30	"	" 3-16 to 1/2 "	10 00
No. 4 Sheet Iron "	30	'	will fold No 20 iron, lock 3-16 to 1 inch	35 00
Improved "	30	"	lock 3-16 to 3/8 inch	10 00
"	42	"	" 3-16 to 3/8 "	18 00
"	60	"	" 3-16 to 3/8 "	25 00
" "	72	"	" 3-16 to 3/8 "	50 00
Iron Bottom "	30	"	" 3-16 to 1/2 "	7 00
" "	39	"	" 3-16 to 1/2 "	12 00
Can Top "	No. 1, for 1/4 inch locks			8 00
" "	No. 2, for 1-16 to 1/4 inch locks			12 00

ENCASED AND RAYMOND'S MACHINES.

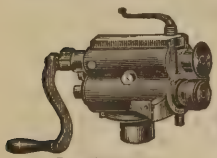
Encased Wiring Machine.



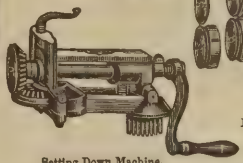
Encased Large Turner.



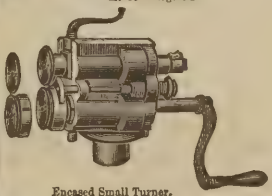
Encased Large Burr.



Encased Small Burr.

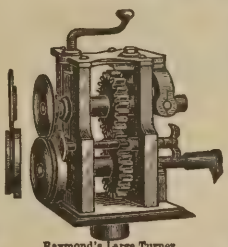


Setting Down Machine.

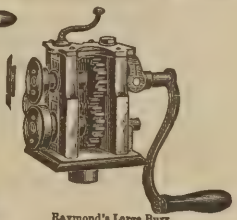


Encased Small Turner.

Raymond's Small Burr.

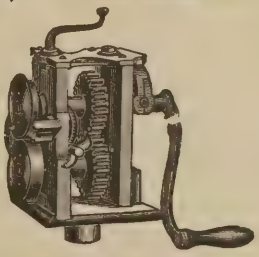


Raymond's Large Turner.



Raymond's Large Burr.

Raymond's Small Turner.



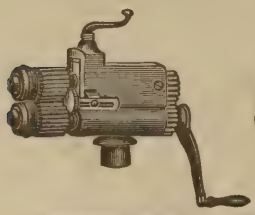
Raymond's Wiring Machine.

	Raymond's	Encased
Wire Machine	$12 00	$14 00
Large Turner, with extra upper and lower face	10 25	11 50
Small " " " " " " "	10 00	11 25
Large Burr " " " face	9 00	10 50
Small " " " " "	8 50	10 00
Setting Down		9 75
" " extra heavy for 3-16 inch seam		11 00

Price includes improved standard—without stand, $0 75 less.

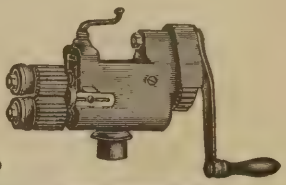
Improved Machine Standard $1 00

BEADING MACHINES, &C.



Niagara Crimper and Beader. Direct Acting,

Climax Crimper and Beader.

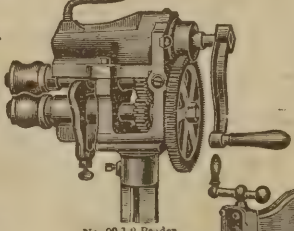


Niagara Crimper and Beader. Geared.

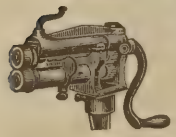
Rim Machine.

Rowe's Pipe Crimper.

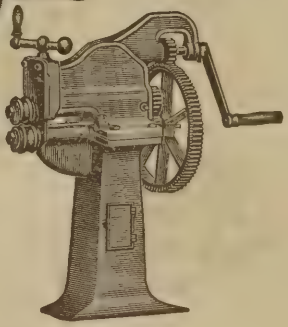
Crimping Machine



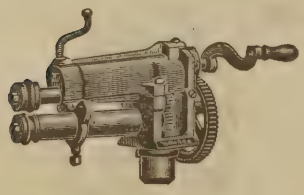
No. 02 1-2 Beader.



No. 4 Beader.



No. 04 Beader.



No. 2 Beader.

	With Stand
Niagara Crimper and Beader, direct acting	$12 00
" " " " geared	12 00
Climax " " "	7 50
Pipe Crimper, L. L. Rowe's, for hand	$ 1 50
Rim Machine encased	18 00

CRIMPERS.

No 1, for work 2½ dia., up to 7½ long.....$18 00

No. 2, for work 1½ dia., up to 6 long $15 00

NIAGARA BEADERS.

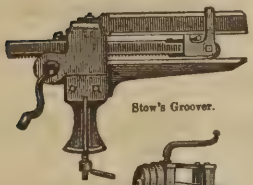
No.	Throat.	Capacity	Sets of Rolls	
1	13 inch,	No. 20 iron,	3	.....$32 25
2	10 "	No. 20 iron,	3	..... 31 25
3	7½"	No. 20 iron,	3	..... 26 25
4	6 "	No 26 iron,	4	..... 19 75
5	4 "	for tin,	5	..... 16 75

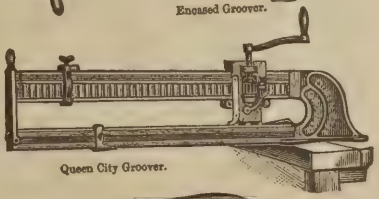
No.	Throat Capacity.	Sets of Rolls	
02½,	for hand, 4 in., No. 16 iron,	1	$40 00
02½,	for power, 4 in , No. 16 iron,	1	45 00
04,	for hand, 8½ in , No 14 iron,	1	120 00
04,	for power, 8½ in., No 14 iron,	1	130 00

GROOVERS AND DOUBLE SEAMERS.

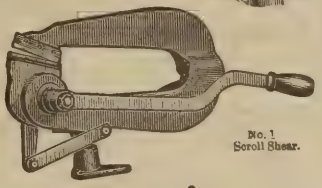
Niagara Brass Mounted Groover.

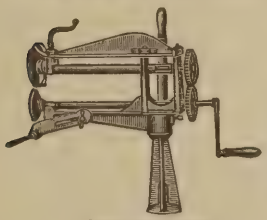
Encased Groover.

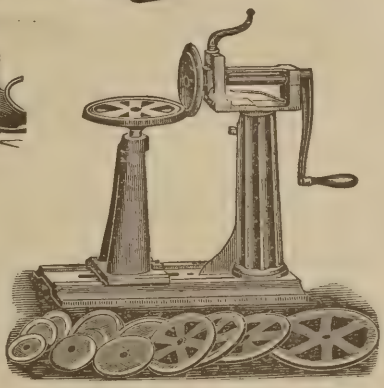

Stow's Groover.


Queen City Groover.

Olmsted's Double Seamer without Deflecting.


No. 1 Scroll Shear.


Moore's Double Seamer.


Hulbert's Double Seamer.

GROOVING MACHINES.—NIAGARA.

Capacity No. 24 iron, removable horn, three grooved and one flat roll for inside and out-work, will groove two inch pipe.

14 ins., $14 00 17 ins., $17 00 20 ins., $20 00
30 ins , $30 00 36 ins., $36 00

STOW'S

Three grooved rolls, 5-32, 3-16, ¼ inch.

17 ins , $11 00 20 ins., $13 50

ENCASED

Three grooved rolls, 3-32, ⅛, 3-16 inch.

17 ins,, $11 00 20 ins., $13 50

QUEEN CITY.

Grooves 32 inches and closes seam at same time, 4 grooved rolls, capacity No. 24 iron, $30 00

DOUBLE SEAMERS—HULBERT'S.

With deflecting, 14 discs..... $30 00
Without " 14 " 25 00

OLMSTEAD'S.

No. 8 discs. For work up to

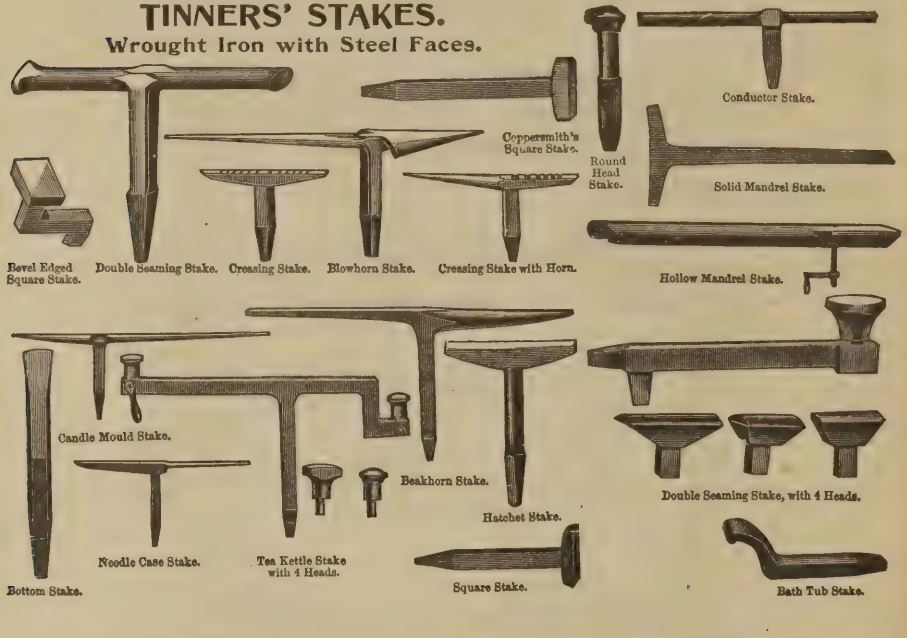
1, with Setting down, 14½ ins , high..... $30 00
2, without " 14½ ins , high..... 25 00
01, with " 20 ins., high..... 35 00
0, with " 25 ins., high..... 50 00

MOORE'S

No. 1, 14 in throat, for heavy metal,..... $21 00
No. 2, 13 in throat, for common work..... 19 00
No. 3, 9 in throat, for coffee pots, etc..... 16 00

TINNERS' STAKES.

Wrought Iron with Steel Faces.



WROUGHT IRON, WITH STEEL FACES.

Bottom.....No.	1	2	3	4
Width	1¾	1½	1¼	1 in.
	$1 00	80	75	50

CAST IRON, WITH POLISHED FACES.

Conductor, No. 1, large end 15 ins , small end 11½ ins	$4 00
Conductor, No 2, large end 14 ins., small end 10 in.,	3 00

Solid Mandrel.....No.	00	0	1	2	3
Length	60	40	34	30	27 in
	$10 00	6 00	5 00	4 00	3 00

Round Head	$1 25
Bath Tub	1 25
Double Seaming, with 4 heads	9 00

	Length.	Diam.	
Hollow Mandrel, No. 000,	36 ins.	3 ins.,	$5 00
" " 0,	40 ins.	4 ins.,	5 50
" " 00,	60 ins.	4⅞ ins ,	10 00
" " Extra,	48 ins.	11¾ ins ,	25 00

WROUGHT IRON WITH STEEL FACES.

Beakhorn, No. 1, 45 pounds	$15 00
" No. 2, 40 "	13 25
" No. 4, 30 "	10 00
Double Seaming, No. 1, large end 17 ins., small end, 13 ins	9 00
Double Seaming, No. 2, each end 11 ins	8 00
Conductor No. 0, each end 14 ins	6 00
" No. 00, long end 20 ins , short end 14 ins	7 00
Bevel Edge Square, No. 1, face 3x5 ins	6 00
Bevel Edge Square, No. 2, face 2½4½ ins.	5 00
Blowhorn, large end 9 small end 17½ ins	5 00
Creasing, with horn, round end 9½ ins., flat end 6½ ins	4 50
Creasing, common, 14½ ins., long	4 00
Coppersmiths' Square, 2⅝x4½ ins	3 50
Common " 2⅝x4½ ins	3 00
Large " 3½x5½ ins	7 00
Small " 2⅜x1½ ins	2 00
Candle Mould, small end 18, horn 8½ in	2 75
Needle Case, flat end 8, small end 10½ in	2 25
Tea Kettle with 4 heads	15 75

Hatchet..... No.	1	2	3	4	5	6
Length of Blade	16	14½	13	11	9	7 in
	$5 00	4 25	3 50	2 75	2 25	1 75

TINNERS' HAND TOOLS.

Wire Chisels.

	¼	3/8	½	5/8	¾	⅞	1	1⅛	1¼	1⅜	1½	1¾	2 in
$ 08	06	10	11	12	13	14	15	17	19	20	24	29	
Circular chisels, per inch													$ 25
Lantern " each													12

Rising Hammers, Nos.	1	2	3	4
Each	$2 25	1 75	1 25	75
Nos	0	1	2	3	4	5
Size of face, inches	1½	1⅛	1	⅞	¾	5/8
Riveting Hammers	$1 30	82	70	57	45	40
Setting "	$.....	82	70	57	45	40

Rivet Sets and Headers.

Nos	00	0	1	2	3
For iron rivets	14	10 & 12	8	6	4&5 lbs
Each	$ 75	75	63	63	50
Nos	4	5	6	7	8
For iron rivets	2½&3	1¾&2	1½	1¼	lb. 10&12 oz
Each	$ 50	37	37	32	32

Grooving Tools.

Nos	00	0	1	2	3	4	5	6	7	8
Sizes	½	7-16	3/8	5-16	¼	7-32	3-16	5-32	9-64	⅛
Each	$ 75	75	63	63	50	50	37	37	25	25

Bench Plates	Nos. 0	1	2
Size, inches	48x12	37x8	30x8
	$9 00	5 00	3 00

Buffalo Snips.

No.	17	18	19
	$2 50	2 00	1 50

Cast Steel Pliers	4	4½	5	6	7	8
Flat Nose, each	$ 38	38	42	50	71	1 05
Round "	$ ..	..	42	50	71	.....

Wing Dividers, cast steel, polished.

Inches	6	7	8	9	10	12	15	18	24
Each	$ 46	55	63	75	84	1 00	1 50	2 09	3 00

Acme Cutting Nippers, Stevens' Patent.

Nos	0	1	2	3	4	5
Each	$3 00	2 25	2 00	1 75	1 50	1 25

Scratch Awls, ring end, per dozen $1 50

Geared Breast Drill, No. 1, double, 4 drills 4 50
" " No. 2, single, 4 " 3 75
" " No. 3, " 4 " 3 00

Solid Punches.

Nos. 0, 1, 2, 3, 4, 5, 6, 7, 8 and prick each $ 12
Set of Solid Punches, 4 punches, 2 chisels per set 72

Hallow Punches.

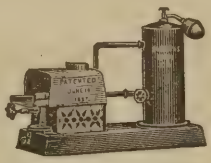
To and including 1¾ ins. diam., per inch $1 00
Above " 1¾ " " 1 25

Niagara Snips.

Nos.	6½	7	8	9	10
Straight	$3 00	2 50	2 00	1 50	1 40
Circular	4 25	3 50	3 00	2 50	2 25

FIRE POTS AND ROOFERS' TOOLS.

Buttle's Fire Pot.



No. 3 Gem Furnace.

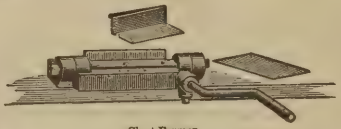
Cast Iron Fire Pot, Brick-lined.

Slaters' Stake.

Slaters' Hammer.

Slaters' Ripper.

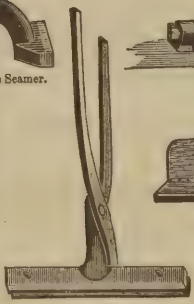
Hand Double Seamer.



Cleat Former.

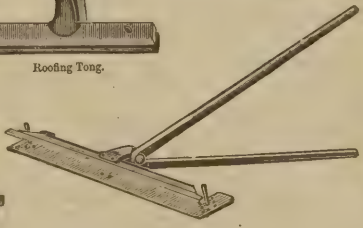
Burritt's Double Seamer.

Wood Roofing Folder.

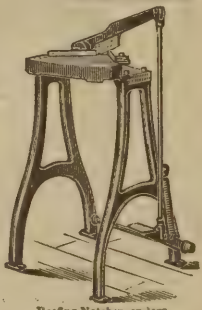


Roofing Tong.

Gutter Tong.



Adjustable Roofing Tong.



Roofing Notcher, on legs.

FIRE POTS.

Buttle's Patent, double damper, burning	$3 25
Cast-iron, brick-lined	4 50
Excelsior Gas Furnace	1 75
Gas Pressure Fire Pot	2 50
No. 3, Gem Gasoline Fire Pot, tin reservoir	7 00
No. 3, Gem Gasoline Fire Pot, copper reservoir	8 50

Burritt's Double Seamer, 2 pairs constitute 1 set.

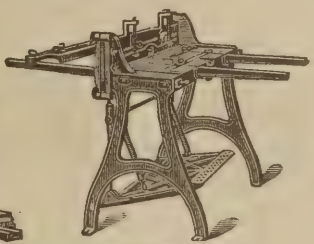
Common gauge to follow 1	$30 00
Wide " " 1¼ and 1½ " "	30 00

ROOFERS' TOOLS.

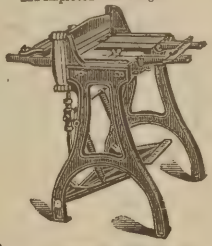
Slaters' Ripper	$2 00		
Slaters' Hammer	3 00		
Slaters' Stake, not graduated	75		
Slaters' Stake, graduated 1 to 12 ins	1 25		
Roofing Tongs, ½, ¾, 1, 1¼, 1½, 1¾, 2 in. per set 2 pairs	6 00		
Roofing Tongs, adjustable, for 6 sizes, each	4 00		
Gutter Tongs, each	5 00		
Hand Double Seamers, per set 2 pairs	1 75		
Wood Roofing Folders	14 ins.	20 ins.	30 ins.
Common	$2 50	2 50	3 50
Improved, with gauge		3 50	5 00

SQUARING SHEARS.

Hercules Squaring Shear.

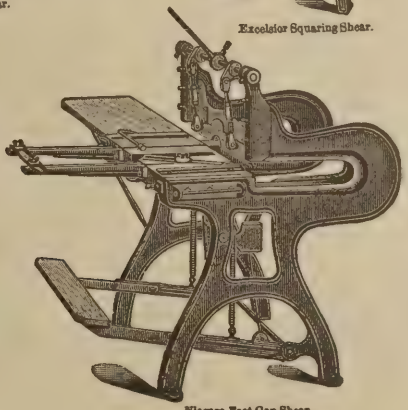


Queen City Shear, with Holddown, and Improved Back Gauge.



Excelsior Squaring Shear.

Niagara Squaring Shear, with Attachments.



Niagara Foot Gap Shear.

Excelsior Shears, 14 ins., with top shelf.....$33 00
" 20 ins., " " 35 00
" 30 ins., " " 50 00

Queen City Shears, capacity No. 18, and Lighter.

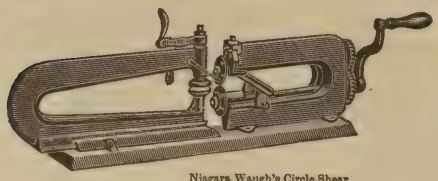
24 in., with top shelf $36 00
20 in., " " 40 00
25 in., " " 48 00
30 in., " " 55 00
36 in., with holddown..... 90 00
42 in., " 140 00
52 in., " 180 00
60 in., " 240 00

Niagara Shears, with weight device, capacity No. 18 iron and lighter.

20 in., with top shelf.....$50 00
25 in., " " 60 00
30 in., " " 68 00
36 in., " " 115 00
42 in., " " 165 00

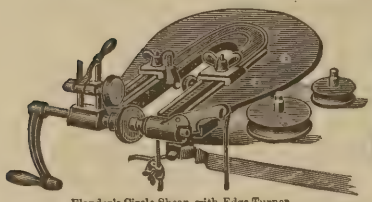
Extras.....	20	25	30	36	42 in.
Pan.....	$4 00	4 50	5 00	7 00	10 00
Holddown.....	3 00	4 00	5 00	6 00	7 00
Improved Guage back or front	3 50	3 50	4 00	5 00	6 00

CIRCLE SHEARS, LEVER SHEARS AND PUNCHES.

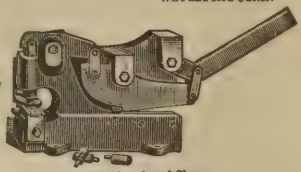


Niagara Waugh's Circle Shear.

Wire and Rod Cutter.



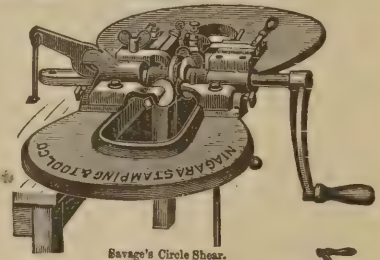
Flander's Circle Shear, with Edge Turner.



Combined Punch and Shear.

Niagara Lever Shear.

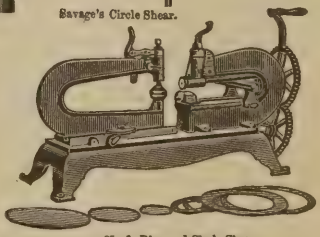
Niagara Lever Punch.



Savage's Circle Shear.

Stock Shear.

Stock Shear and Punch Combined.



No. 1, Ring and Circle Shear.

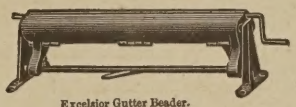
WAUGH'S CIRCLE SHEARS.

No. 1, cuts 3	to 14 inch circles,	slit 9	inches	wide		$33 00
No. 2, cuts 3	to 10	"	"	9	"	38 00
No. 3, cuts 3½	to 41	"	"	9	"	55 00
No. 4, cuts 3½	to 48	"	"	9	"	65 00
No. 5, cuts 4	to 48	"	"	12	"	80 00

No. 1 to 4 cut XXXX tin. No. 5 cuts No. 18 iron.

GUTTER BEADERS AND FORMING ROLLS.

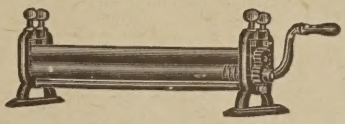
Improved Gutter Beader.



Excelsior Gutter Beader.

Iron Bottom Gutter Beader.

Tin Pipe Former.



Stove Pipe Former.

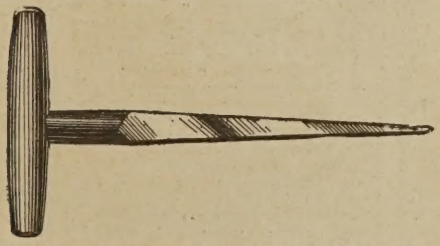
GUTTER BEADERS.

Inches	15	20	30	36	42	60
Iron Bottom	$3 50	4 00	6 00	.....	9 00	20 00
Improved	4 50	5 50	.....	.....	.....	.....
Excelsior	4 50	5 50	10 00	20 00	.....	.....
Steel Rods, only	1 75	2 00	3 00	4 00	4 50	8 00

Price includes 1 rod. State size wanted.
Price of longer Gutter Beaders on application.

FORMING ROLLS.

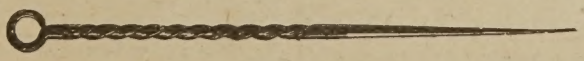
Size, Inches	1X12	1½X16	1½X20	1¾X30	2X30	2X37
Plain	$12 00	9 00	10 00	18 00	19 00	24 00
Slip Roll	.....	10 00	11 00	11 00	20 00	26 00



T. REAMERS.

Price, ... 60 cts. each

SCRATCH AWLS.



Price, ... 25 cts. each

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